mon amie deluxe

Operating Instructions

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KBL AG
Ringstrasse 24-26 · 56307 Dernbach · Germany
Telephone +49(0)2689.9426-0 · Fax +49(0)2689.9426-66
eMail mon-amie@kbl.de

www.mon-ami.de

Contents

General information 5
About these instructions 5
Transport by forklift truck 5
Other modes of transport 5
Old equipment disposal 5
Service 5

Safety notes 6
Intended use 6
Duties of the operator 6
Timer operation 6
General safety advice 7
Collagen - tanning times 7
Updating the system software 7

Description of the unit 8
Standards 9
Components 9

Connections 10
Connecting the mains voltage 10
Connecting an external audio source 10
Operation using different audio sources 11
Connecting the channel selection 12
Connecting the external timer 12
aquaCool and Aroma connections 12

Start-up 14
Operating modes 14

Collagen-Tanning instructions 15
Notes regarding UV-tanning 15
Collagen-tanning times 16

Collagen-Tanning mode 17
Switching the display 17
Preselecting the type of tanning 17
Start of the collagen/UV tanning session 17
Operation during the session 18
Variable section of the control panel 19
Basic functions 19
Function overview 20

Standby mode / service mode 22
Layout of the display numbers 22
Switching the decorative lighting on and off 22
Collagen boosters in standby mode 22
aquaCool spraying test 22
Invoking the service menu 22
Service menu - Basics 23
Service menu - Structure overview 25
Personal PIN 26
Service menu - options 26

Maintenance and cleaning 39
Instructions for cleaning and care 39
Maintenance intervals 40
Tools and aids 40
Unlocking the bench 41
Acrylic panes 41
Tubes 43
Collagen boosters 43
Interior unit lighting 43
Filter cartridges 44
Canopy drive 45
Ventilation and air-conditioning 47
Recording to an SD card 48
Replacing Aroma and aquaCool media 49
Replacing the aquaCool nozzles 50
mon amie skin sensor 50

System messages 51

Technical data 54
Views 54

General information

About these instructions

This operating manual is intended for use by

- operating staff,
- users,
- service staff.

Any person dealing with this unit must have read and understood these instructions.

This manual describes units equipped with the maximum number of features.

Keep this manual ready to hand at all times.

Transport by forklift truck

The device is mounted on a pallet.

- Insert the forks carefully into the openings of the pallet.
- Lift the load by a few centimetres.
- Transport the load carefully to the place of installation.

Other modes of transport

DANGER

Overturning load!

Danger of being crushed by heavy parts of the equipment.

- **Wear safety shoes.**

If a forklift truck cannot be used for transport, the box must be unpacked and the parts inside must be transported individually to the place of installation, e.g. using a dolly. Depending on the weight of the components, lifting them might require several people.

Old equipment disposal

This device consists of components that cannot be thrown into the household garbage!

Dispose of your old equipment in an environmentally friendly manner after the end of its useful life. Metals and plastics can be recycled. Electrical and electronic components must be disposed of as e-waste. Fluorescent lamps must be dropped off at authorized collection points for pollutants.

This helps to avoid damaging effects to the environment and human health caused by improper disposal.

This makes a valuable contribution to recycling and other forms of utilization of old electrical and electronic equipment.

You can obtain information about environmentally friendly disposal from your local government or the municipal administrations.

Service

For all service-related questions, please contact your responsible specialist dealer.

Safety notes

This chapter provides a summary of general information on safety and proper handling of the device. More specific safety advice is given in other chapters of the operating manual.

Intended use

The unit is intended to be used for the tanning of one single person at a time. This person must not fall in one of the categories mentioned below, otherwise using the tanning equipment is prohibited for him or her.

The following individuals must not use the tanning system:

- Persons under 18 years of age
- Persons with heart pacemakers.
- Persons, who are suffering or have suffered from skin cancer or have a predisposition toward this, or those whose first-degree relatives are suffering or have suffered from malignant melanoma (black skin cancer).
- Persons taking photosensitive medications.
- Persons, who are being treated by a physician for conditions associated with photosensitivity.
- Persons suffering from acute sunburn.
- Persons, who are prone to freckles.
- Persons with atypical discoloured skin areas or/ and with more than five atypical moles with a diameter of 5 millimetres or more and persons with more than 16 moles with a diameter greater than or equal to 2 millimetres. If in doubt, consult a physician!
- Persons, who had several severe sunburns as children.
- Persons with naturally red skin colour.
- Persons, who do not tan at all or cannot tan without getting sunburn.
- Persons, who have a predisposition toward sunburn.

Furthermore, this tanning unit has been designed for use by individuals who are in full command of their physical, sensorial and mental faculties. Moreover, sufficient knowledge and experience are required. During the operation no other persons shell be in the radiation range of the device.

Children, should be supervised to make sure that they do not use the unit as a toy.

Duties of the operator

KBL AG cannot be held liable for any damage resulting from improper use of the equipment or non-observance of these operating instructions.

Only use original replacement parts!

Only replace tubes and high pressure lamps with those listed on the device. Otherwise, this voids the operating authorization and warranty!

Timer operation

The tanning unit must be controlled via an external timer. Should the external timer fail, an internal timer will switch off the system automatically after 44 minutes.

General safety advice

- Follow all instructions given in this manual. In addition, observe all relevant statutory provisions and regulations, also those applicable in the country of operation.
- The unit must only be installed and assembled by specifically trained staff.
- Arbitrary modifications or conversions of the equipment are not permissible.
- Observe all danger signs and safety notices attached to the equipment.
- Safety notices must not be removed, and safety equipment must not be disabled or removed.
- The unit must only be operated when in perfect working condition.
- Never operate the unit with the outer covers or acrylic panes removed.
- The collagen - tanning system must be controlled via a timer that complies with the generally applicable standards.
- Absolutely observe the maintenance frequencies indicated in the maintenance plan.
- Pay attention to the load limit of the bench pane (tanning bed units only).

Collagen - tanning times

Adhering to collagen - tanning times and schedules is essential.

Updating the system software

ATTENTION

Risk of damage by switching off the power supply voltage.

Disconnecting power supply during the update process, will lead to damage of electronic components.

- Make sure that the unit is not disconnected from the power supply voltage during the update.

To accomplish the update download the “USB-Connect” software offered by KBL. For detailed information press the help-button in the main menu.

Description of the unit

Congratulations!

With your mon amie deluxe, you have purchased an original Collarium®.

A combination of special collagen tubes to build up the collagen deposits in your skin, in conjunction with optional UV-tubes to create a subtle tan, makes your mon amie deluxe a one of a kind skin care system.

In addition, your mon amie deluxe has a medical skin sensor. This measures the melanin content of the skin and thus ensures individual and safe tanning.

mon amie deluxe

Standards

This Collarium® complies with the following standards in their respectively applicable version:

- EN 60335-2-27
- EMC 2004/108/EC
- Low Voltage Directive 2006/95/EC

Components

The Collarium® basicallly consists of the following components:

- The canopy including 11 UV tubes, 9 collagen tubes, 80 collagen booster and control panel.
- The side part including 3 UV tubes, 3 collagen tubes and 10 collagen booster.
- The base part including 10 UV tubes, 10 collagen tubes, the electronics unit and further, optionally available components.

1	Collagen booster
2	Canopy
3	Locking bar with the locks for the canopy pane
4	Control panel
5	Line connectors (in/out) (player/headset)
6	Base (side covering)
7	Opening mechanism of the bench part
8	Base (faceplate)
9	Bench pane
10	Side pane
11	Canopy pane
12	Air nozzles

KBL mon amie deluxe

Figure 1

Connections

Connecting the mains voltage

DANGER

Live parts

Risk of fatal injury due to electric shock when touching live parts.

- **Disconnect from mains and secure against reconnection!**

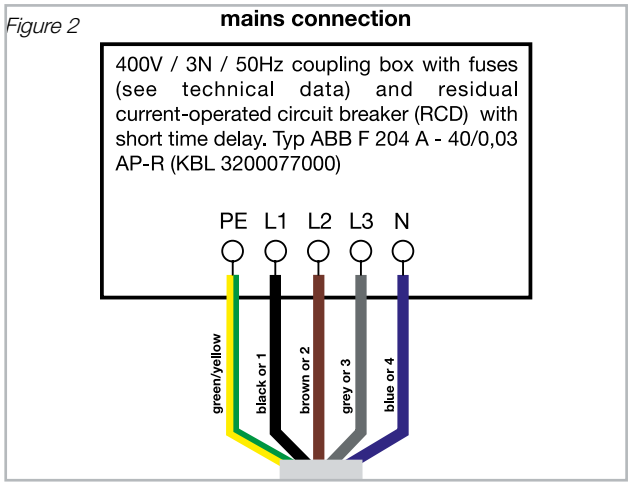
Both the power supply and the related connection work must comply with national standards, e.g. those set up by VDE in Germany. The connection work must only be performed by qualified expert staff.

The connection to the 400 V mains must be protected by fuses. Their specifications are listed in the chapter “Technical data”.

A residual current-operated circuit breaker (RCD) with short time delay is absolutely required. KBL AG recommends the following type: KBL 3200 0770 00 (type (Typ ABB F 204 A - 40//0,03 AP-R).

Should the operation of the unit cause any interference in the power supply network, e.g. with ripple-control systems (TRA), consult your power supply company to have corresponding blocking elements (audio frequency suppressors) installed.

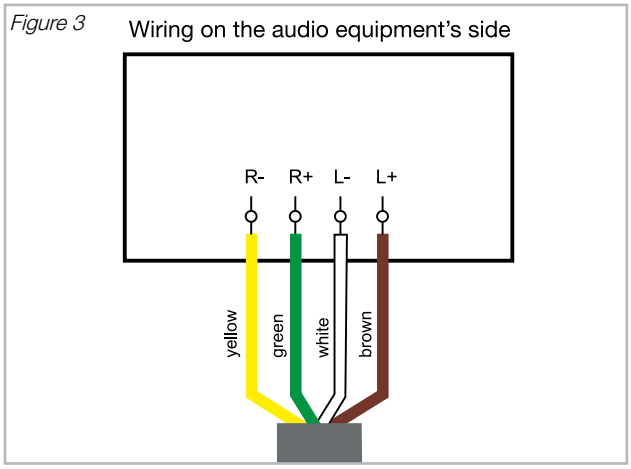
Figure 2


mains connection
400V / 3N / 50Hz coupling box with fuses (see technical data) and residual current-operated circuit breaker (RCD) with short time delay. Typ ABB F 204 A - 40/0,03 AP-R (KBL 3200077000)
PE
L1
L2
L3
N
green/yellow
black or 1
brown or 2
grey or 3
blue or 4

Connecting an external audio source

When connecting an external audio source (studio music), pay attention to the correct polarity.

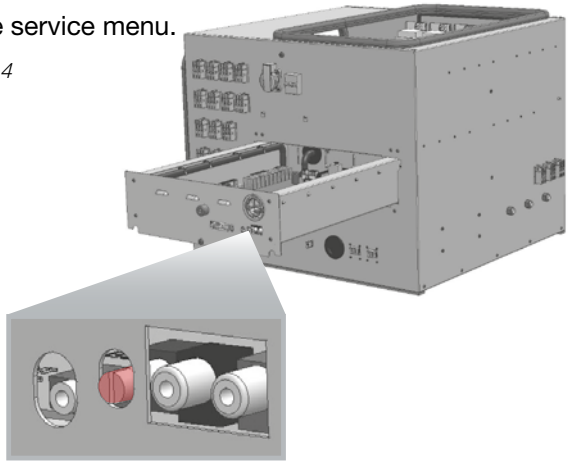
Figure 3



Level adjustment studio signal

The voice / audio system components are built in the middle of the bench part (vacuum housing) of the device. The potentiometer which serves of the external audio signal is located on the left side of the housing. To avoid overdrive, select the level adjustment accordingly. The level setting mainly depends on the strength of the external signal and should be carried out by a service engineer. Adjustment of the sound level can only be conducted in the service menu.

Figure 4



Operation using different audio sources

The unit can be operated using the following audio sources:

- An internal audio source
- Various external audio sources
- All available audio sources

The audio source can be changed at any time by using the control panel.

INTERNAL MP3 PLAYER

When using the internal MP3 player, you can either play the music tracks that are originally supplied on the SD card, or you can record your own tracks to the SD card.

EXTERNAL AUDIO SOURCES

LINE-IN

As an external audio source, you can connect devices ranging from the standard-line level to low loudspeaker levels.

These sources comprise:

- Studio music
- External players such as MP3 players, mobile phones (cell phones), I-pods, etc.

EXTERNAL 100 V AUDIO SIGNAL (OPTIONAL FEATURE)

If you decide for a connection to a 100 V audio system, you will need a transformer (KBL no.: 9100 0170 00) for the transmission of the audio signal.

This connection must be made by trained service staff.

EXTERNAL PLAYERS & HEAD-/EARPHONES

A line connection has been integrated on the right-hand side of the bench's head end so that the unit user can connect his or her own player such as an MP3 player, an iPod, etc. Take hold of the jack plug and pull the cable out of the opening. Then connect the jack plug to the earphone jack of your player. Then select "MP3 ext." as the audio source from the control panel of the unit before you start playing your own tracks from the player.

The tracks can only be selected via the user's own player. The volume can be controlled via the control panel of the unit and also via the corresponding operating elements provided by the user's player.

Either a headphone or an earphone with a 6.3 mm jack plug can be used. The corresponding connector socket is located next to the line connector. The audio signal is switched over automatically.

Figure 5

ATTENTION

- Danger of damage to the player due to overheating.
- Do not place your player within areas that are directly exposed to UV radiation.

Connecting the channel selection

The following diagrams show the wiring of the channel selection on the audio equipment's side, for pulse coding as well as for BCD coding.

Figure 6

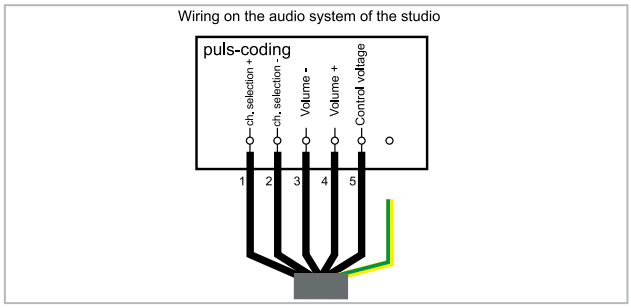
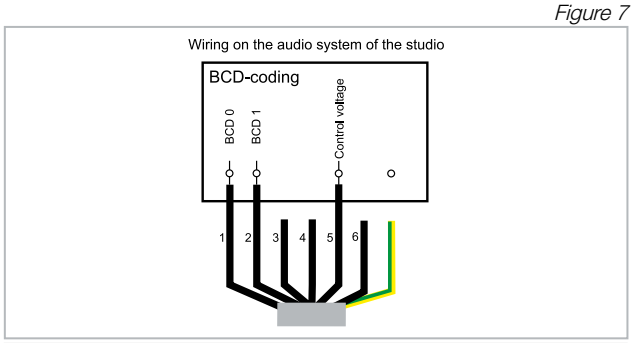


Figure 7

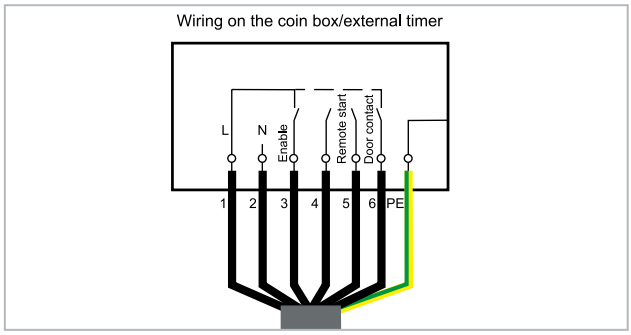


CHANNAL	BCD 0	BCD 1
1	0	0
2	1	0
3	0	1
4	1	1

Connecting the external timer

Connect the external timer (coin box, studio control) according to the instructions supplied with the timer. The following diagram shows the wiring requirements with regard to the timer. The door contact is required if you have opted for the booth-scenting feature.

Figure 8

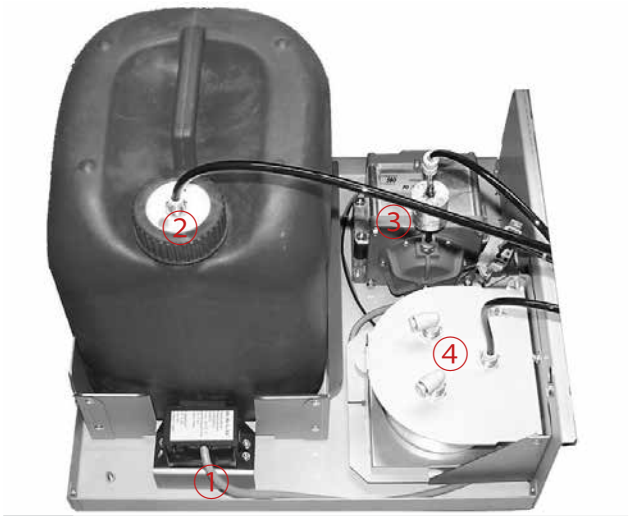


aquaCool and Aroma connections

AQUACOOL

The aquaCool box is equipped with a liquid-level sensor ① as well as with a connection to the aquaCool canister ②. Furthermore, the box houses the compressor ensuring the compressed-air supply ③, and the Aroma box ④ with its related connections.

Figure 9

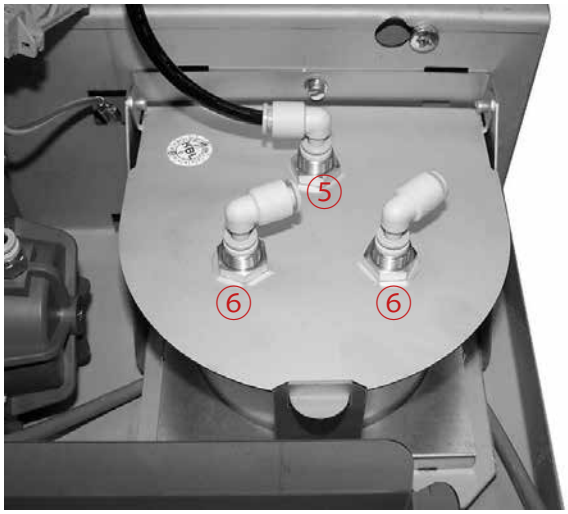


1	Connector (liquid-level monitoring)
2	Connection to aquaCool canister
3	Compressor with compressed air connection
4	Aroma box

AROMA

The Aroma box is attached within the aquaCool box and equipped with three hose connections, one for the compressed-air supply ⑤ and two leading to the Aroma nozzles ⑥.

Figure 10



5	Aroma box (inlet)
6	Aroma box (outlets)

Start-up

Before switching on for the first time:

- Fix the supplied warning sign or one with the following wording permanently to the wall close to the unit:

Warning!

- UV-radiation can cause eye and skin damage as well as skin aging and possibly skin cancer. Ask the studio staff for further information.
- Wear protective goggles.
- Certain medicines or cosmetics can increase the sensitivity of the skin to UV radiation. If in doubt, consult a physician.

- Determine the presettings for the device in the service menu.
- Check correct installation of fluorescent tubes. The tube labeling must be visible, otherwise no effect may be obtained.
- Store these Operating Instructions in a place that allows for easy access at any time.

Operating modes

The three different operating modes are explained below:

STANDBY MODE

The unit is in an idle state, i.e. it is connected to the mains but is currently not being used. The tubes are switched off. From the standby mode, you can change over to the collagen - tanning mode or to the service mode.

COLLAGEN - TANNING MODE

The tubes are switched on and a collagen - tanning session is in progress. While the unit is in collagen - tanning mode, the settings for the ongoing collagen - tanning session can be changed via the control panel.

SERVICE MODE

In the service mode, the device is configured for the collagen - tanning mode. Various values can be displayed and test functions can be carried out.

FAN RUN-ON

After the collagen - tanning session, the fan runs on for 3 minutes in order to cool down the device. The fan power is automatically decreased as the tubes cool down.

Collagen-Tanning instructions

Your mon amie deluxe is primarily a skin care system for the targeted build-up of collagen. It is optionally possible, however to administer a UV-dose. In this case, follow the instructions below.

Notes regarding UV-tanning

As a rule, an averagely tanning skin has achieved a uniform tan after three to five tanning sessions. These sessions should take place every second day. To preserve the suntan achieved, one or two tanning sessions per week are normally sufficient.

NO SUNSCREEN WITH PROTECTION FACTOR

Sunscreens with sun protection factors are unsuitable for use in a tanning salon. For tanning, the skin should have been thoroughly cleaned and be dry. For optimum skin care, we recommend using our line of body-care products after tanning.

GENERAL

- Any person that complies with the requirements laid down in the chapter “Intended use” may use the device.
- Never exceed your personal minimum erythema dose (MED).
- If reddening of the skin (erythema) occurs hours after tanning, temporarily stop tanning.
- If unexpected effects (such as itching) occur within 48 hours after the first tanning session, you should consult a physician before tanning again.
- Once final tanning has been achieved, additional tanning is only possible by greatly exceeding the permissible tanning times. It is essential to avoid this.
- UV-radiation from the sun or from UV-devices can cause irreversible skin or eye dama. These biological effects depend on the type and amount of radiation as well as on the individual sensitivity of the skin.
- In cases of pronounced individual sensitivity or allergic reactions to UV-radiation, a physician should be consulted before beginning tanning.
- After excessive exposure to radiation, the skin may exhibit sunburn. Excessively repeated exposure to UV radiation of sunlight or UV appliances can result in premature ageing of the skin and in a higher risk of skin cancer.
- The unprotected eye can suffer from surface inflammation, and in certain cases, e.g. after a cataract operation, excessive radiation can damage the retina. After many repeated sessions, a cataract may form.
- Seek medical advice if persistent swellings or sores develop on the skin or if pigmented moles change in appearance.

FOR EACH TANNING SESSION

- Always wear the supplied protective goggles. Contact lenses or sunglasses are no substitute for the protective goggles!
- Remove cosmetics before tanning and do not use any sunscreen, or products that accelerate tanning.
- Allow for at least 48 hours to pass between sessions.
- After a tanning session in a studio, do not take another sunbath out of doors on the same day.
- Protect sensitive areas, such as scars, tattoos, and genitalia, from radiation.

Collagen-tanning times

Your tanning time with the mon amie deluxe should be as pleasant as possible. For this reason, the UV-dose to be administered is controlled by time and also by intensity. The collagen intensity is constant over time.

UV-DOSAGE

The UV-dose to be administered is determined **individually depending upon skin type** before each tanning session with the aid of a skin sensor (melanin sensor).

Based on this measurement, the UV-dose to be administered is automatically adjusted by means of the fixed tanning time.
The administered UV-dose will never exceed the maximum value of 300 J/m².

If **no** skin measurement is performed, the minimum dose of 100 J/m2 is automatically administered. The UV-tubes switch off automatically after 10 minutes. The **first tanning session** must always be performed in this manner!

If no tanning takes place for four weeks, the person tanning must begin with the first tanning session again.
This information is only in effect for devices that are maintained according to the intervals listed in the maintenance chapter (cleaning and replacing tubes).

ATTENTION

Performing the first tanning session.

In order to ensure that no more than 100 J/m² are administered during the first tanning session, this must performed **without** prior skin measurement!

- Dose of first tanning session 100 J/m² for 10 min
- Maximum dose 300 J/m² for 20 min
- The time between two tanning sessions must be at least 48 hours.
- Maximum 50 tanning sessions per year (=15 kJ/m²)

DANGER

Excessive dose of UV radiation

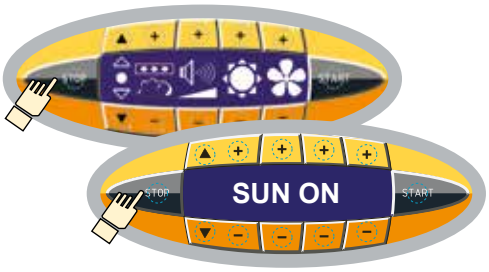
Excessively prolonged tanning sessions may cause severe damage to skin and eyes.

- Never operate the Collarium® with a defective timer.
- Observe the tanning times given in the tanning schedule.

Collagen-Tanning mode

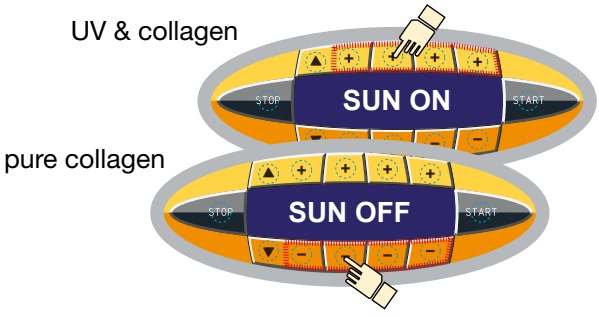
Switching the display

By pressing the stop button in standby mode you may switch between the "tanning mode preselection" and the standard menu display. After 20 seconds the display switches back to the "tanning mode preselection", authomatically.



Preselecting the type of tanning

Your mon amie deluxe makes it possible for you to choose between pure collagen operation or a collagen/UV-mix.



Start of the collagen/UV tanning session

In order to obtain the optimum effect, the Collarium® automatically adapts the UV-portion of the tanning to your individual skin type, if desired. For this, it is necessary to measure the melanin with the mon amie skin sensor.

Attention

- Clean the melanin sensor ② **before** measurement in the presence of the customer.
- For this, always follow the instructions in the maintenance portion!!

THE mon amie SKIN SENSOR

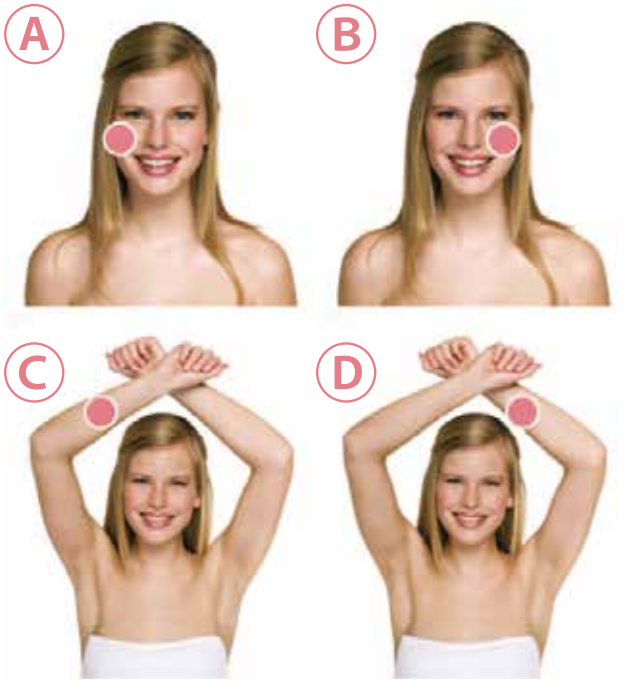
mon amie skin sensor (terminal)	
①	Start button
②	Melanin sensor
③	Measuring point display fields
④	Display of the tanning time

MELANIN MEASUREMENT

Press the start button ① and follow the instructions of the acoustic menu navigation.

The melanin sensor ② must be placed vertically on the point shown on the mon amie skin sensor. The respective display field ③ lights up. Repeat this procedure for all measuring points Ⓐ Ⓑ Ⓒ Ⓓ, until the acoustic menu navigation informs you that the measurement process was successful.

MEASURING POINTS

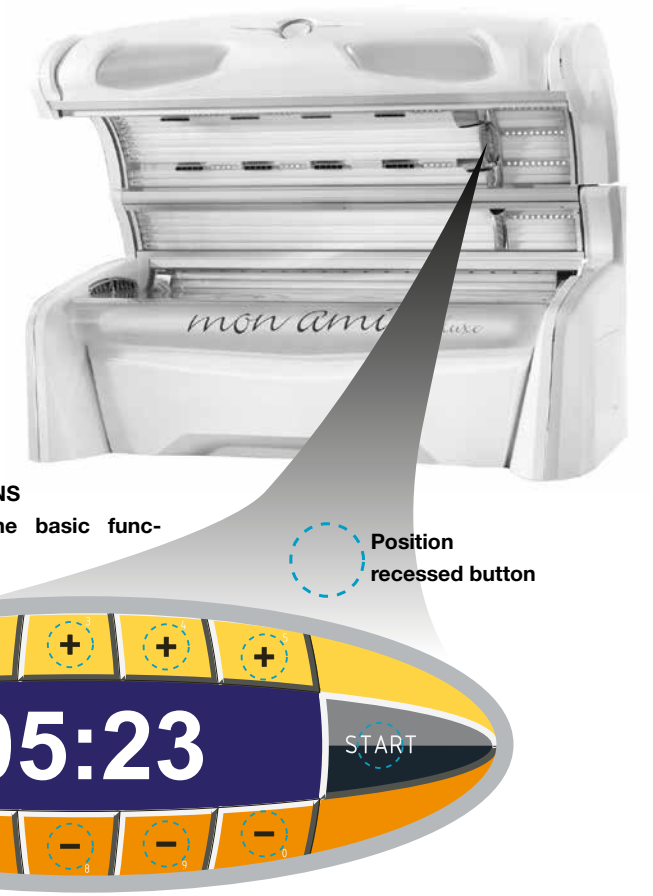


Operation during the session

You can control the functions of the Collarium® via the interior display during the session. It is particularly easy for you to access the basic functions.
Buttons with recesses that can easily be sensed allow for easy operation of the system even with your eyes closed.

NOTES:
20 seconds after your last input, the display changes over to the indication of the session time.
An information line at the bottom edge of the display informs you about currently selected features.

The collagen-tanning session will commence automatically after the warm-up time controlled by the timer has elapsed. During the warm-up time, the tanning session can be started manually at any time by pressing the START button.



STOP BUTTON
- Stops the tanning session if pressed for at least two seconds.

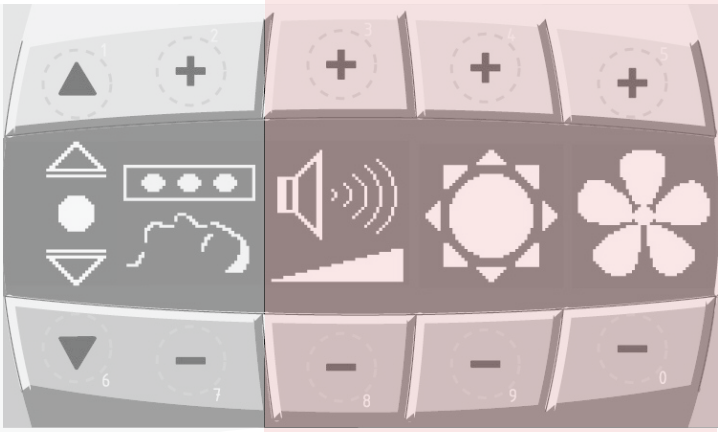
DISPLAY
- Shows the menu items and functions.
- Indicates the session time.
- Information line.

START-TASTE
- Starts the tanning session during the warm-up time
- as well as after an interruption caused by pressing the STOP button, provided that the booked session time has not elapsed yet.

Basic functions

During the session, you need quick access to basic functions such as volume control, body fan and SUN ON/OFF function.
You should also be in a position to change the subordinate functions.
The control panel caters for both requirements. You have

- direct access to frequently needed functions via the “Basic functions” section, and
- access to the subordinate functions you made via the variable section of the control panel (display according to the rotation principle).

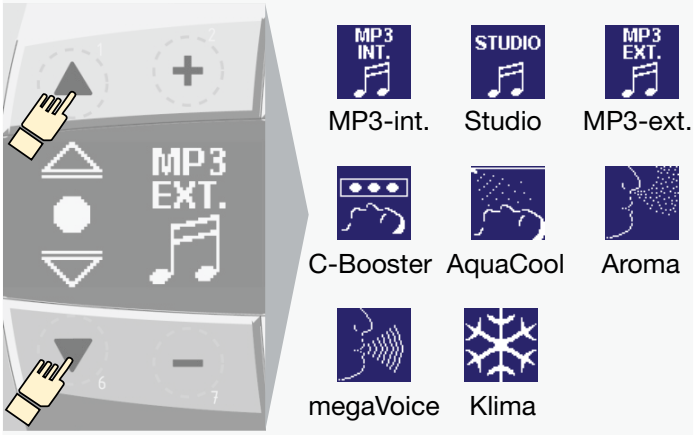


The basic functions portrayed here refer to a fully equipped device.
If you have chosen a simpler equipment package, functions from the variable operating elements automatically take the place of the missing basic function.

Variable section of the control panel

During the session, you continue to have access to the subordinate functions. If you wish to make any changes, you can do so in the variable section of the control panel. By pressing one of the arrow buttons ▲ ▼, above or below the changeover symbol, all available functions will be displayed one after the other according to the rotation principle. You can switch these individual functions on or off and, if possible, make changes to the settings.

Selectable function symbols (for a fully equipped unit).



MP3-int. Studio MP3-ext.

C-Booster AquaCool Aroma

megaVoice Klima

Function overview

max on

Volume

UV tubes

During the session you can switch the UV tubes on and off.

Body fan

The body fan is automatically controlled by ACS. As soon as you press one of the fan buttons, the automatic mode is interrupted.

Keep pressed for 2 seconds

min off

on

Air-conditioning

After the air-conditioning system has been switched off, it cannot be restarted for three minutes for safety reasons. If the system is switched on during this time, the command will be stored. The air-conditioning system will be switched on automatically after a delay, i.e. after the blocking time has elapsed. If the condensate canister is full, the following symbol flashes on the display:

See also the chapter “Maintenance/Air-conditioning system”.

Aquacool

An ongoing spraying process cannot be stopped. If the aquaCool supply is running low, a corresponding message is displayed in the standby mode. After the message has appeared for the first time, the aquaCool supply will last for approximately another 2.5 hours of operation. If the system has run out of aquaCool liquid, the aquaCool function is deactivated automatically, and the symbol shown below is displayed.

aquaCool is automatically re-activated as soon as a full canister has been connected.

Aroma

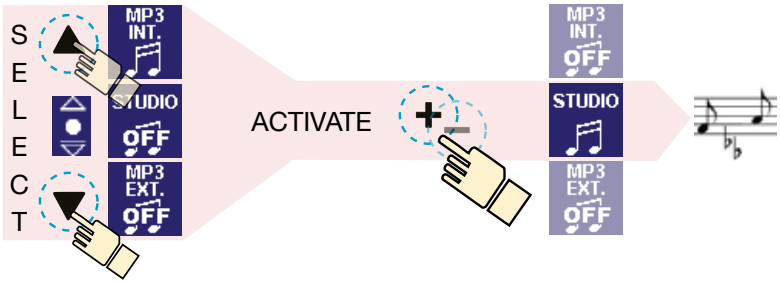
megaVoice

off

AUDIO FUNCTIONS

There is a maximum of three audio sources available at the user's disposal. If you change over to another source, you must activate it first. The activation is effected by pressing the + or the − button.
All inactive audio functions are marked with "OFF" on the display so that you can easily recognise the active audio source.

MODEL: ACTIVATING AUDIO FUNCTIONS



Variable section of the control panel (audio functions

+ channel +

Studio

This function is used to play the studio music.
If the Studio function has been activated, you can press the plus and minus buttons to browse through the channels, provided that more than one channel is available.

MP3 external (AUX)

The audio module of the sundbed is equipped with a cable with a 3.5 mm jack plug so that you can make use of external players, such as MP3 players, iPods, etc. In this way, you can connect the headphone jack of your player to the Collarium® system.
Use the corresponding operating elements of the external player in order to select the desired tracks.

− channel −

+ tracks +

MP3 internal

This function is used to play the tracks of the internal MP3 player of the Collarium®, the respective first title being selected by a random generator.
If the MP3 internal function has been activated, press the plus and minus buttons to browse through the individual tracks.

− tracks −

+ on / max +

III

II

Collagen booster

I

0

− off / min −

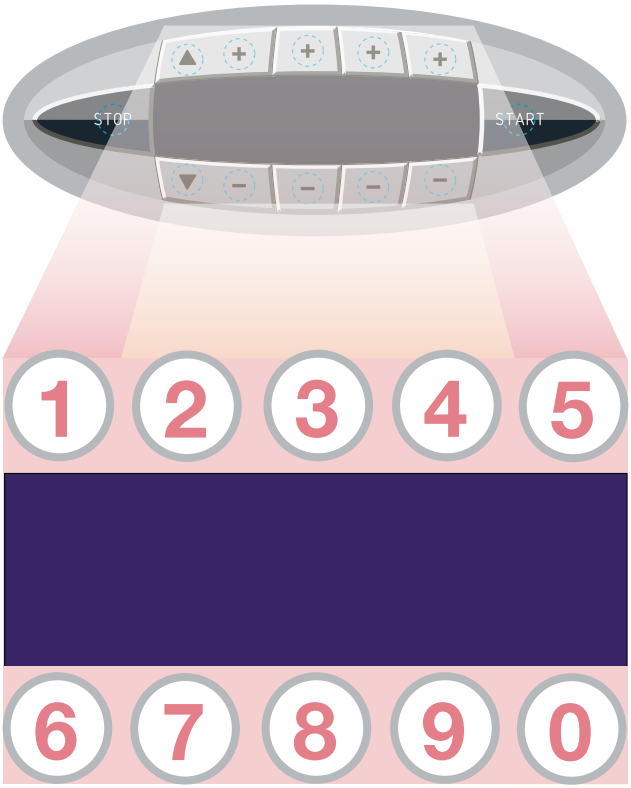
Standby mode / service mode

While the unit is in standby mode, you can switch the decorative lighting of the unit on and off and trigger an aquaCool spraying test (1 spraying cycle).

When the unit is in service mode, you can make the presettings for operation in tanning mode, and you can have values concerning the operation of the unit displayed.

Layout of the display numbers

The buttons of the interior display are allocated double functions. In addition to the standard operating elements, they stand for numbers that, in standby mode, provide access to standby and service functions. Simply enter the corresponding sequence of numbers on the display.



Switching the decorative lighting on and off

5 0 5

NOTE

The connection times of the decorative lighting can be set in the service menu individually for each day of the week.

There are two independent connection periods (A and B) available for each day of the week.

Collagen boosters in standby mode

In standby mode, the collagen boosters work as decorative lighting with minimum power. For testing and demonstration purposes the three operating modes can be activated via the control panel . After 10 seconds, the boosters automatically switch back to the decorative mode.

aquaCool spraying test

4 9 4

Invoking the service menu

1 6 1 0 0 0 0

PIN

NOTE

Do not let too much time pass between the individual keystrokes when entering a sequence of numbers!

Service menu - Basics

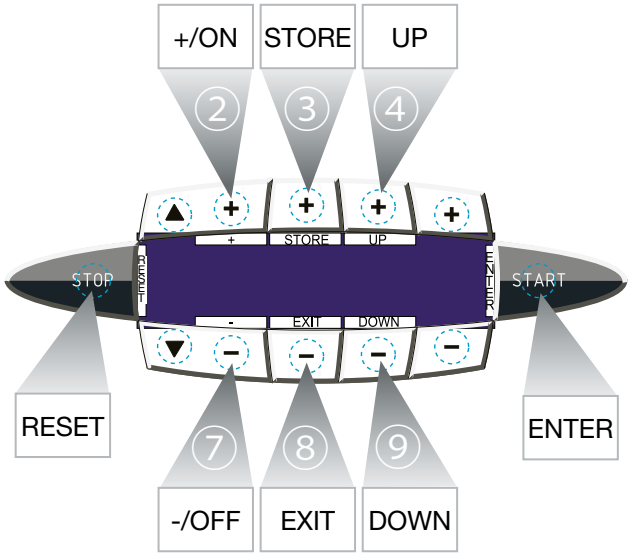
In standby mode, the service level is accessed by entering “161”, followed by PIN “0000”. There is one additional condition that must be fulfilled:

- No incoming signal from the coin-box system.

SERVICE MENU - STANDARD OPERATING ELEMENTS

After having entered the service PIN, the service menu is at your disposal. Navigation is made via the following buttons (see also chapter: Layout of the display numbers):

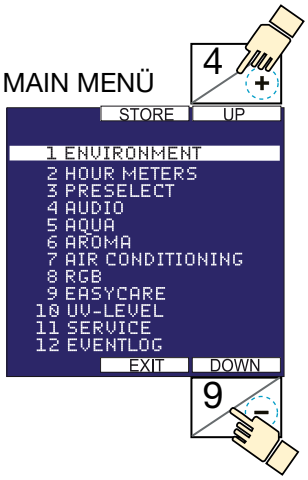
- Use buttons 4 (UP) and 9 (DOWN) to browse through the individual menu items and functions.
- Press the START/ENTER button to go to the corresponding submenu.
- Button 2 and 7 are used to switch functions on and off and to modify values.
- Press 3 (STORE) to save all modifications made in all menu items.
- Press 8 (EXIT) to go back to the previous menu level or to exit the service menu.



SERVICE MENU - BASIC OPERATION

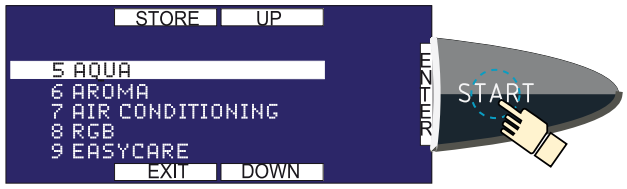
The service menu is divided into the main menu and subordinate groups of functions.

If you choose a menu item, e.g. “AUDIO”, you will get access to all functions related to this item.

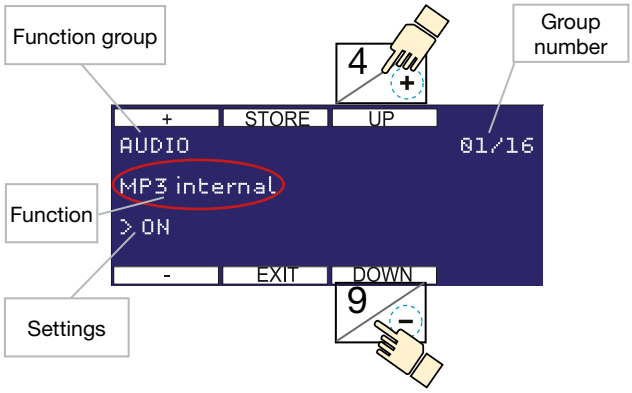


- Select the desired function group from the main menu by pressing the 4 (UP) or the 9 (DOWN) button. The currently selected group is highlighted.

- Press the START/ENTER button to access the desired group menu.

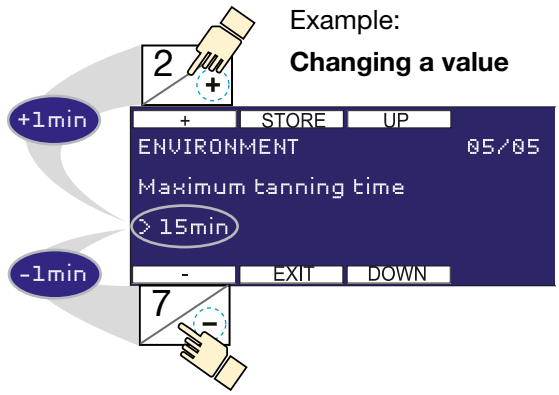


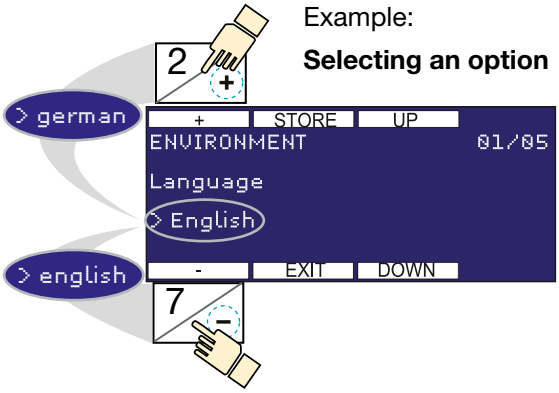
- The currently active function (circle) is displayed in the centre line on the left-hand side. You can invoke further functions of this group by pressing 4 (UP) or 9 (DOWN).

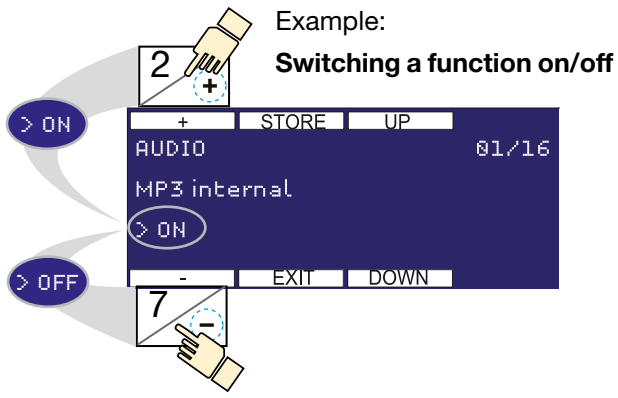


CHANGE SETTINGS

- Depending on the respective function, you can **change values, select options and switch functions on or off.** To do so, use the buttons 2 (+) and 7 (-).

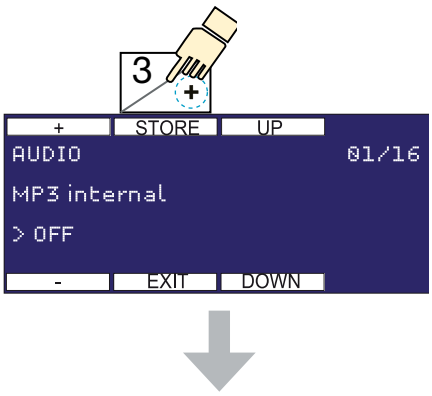




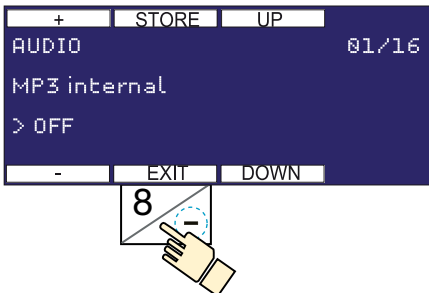


STORE & EXIT

- Save your settings by pressing the button 3 (STORE). If you fail to do so, the system will not take over the changes you made. -> See also chapter “Service Menu - Timeout”.
- By pressing the STORE button, you save all changes you have made in all menu items.



- By pressing 8 (EXIT), you go back to the previous menu level, or you exit the service menu.



SERVICE MENU - TIMEOUT

After performing your last operating action, you have 2 minutes left to save the changes you have made. Then, a prompt appears and all changes are automatically discarded after an additional 20 seconds.

SERVICE MENU - AUDIBLE SIGNALS

For user convenience, operation and storage processes are acoustically acknowledged in different ways:

Operation process	->	short sound
Storage process	->	long sound

KBL-7 - MON AMIE **Service menu - Structure overview** **VERSION: 01.35**

ENVIRONMENT
- ① Language
- ② Contrast
- ③ TIME AND DATE
- ④ TIMER DEKOLIGHT
- ⑤ Maximum tanning time

HOUR METERS
- ⑥ Operating hours overall
- ⑦ Operating hours UV tubes
- ⑧ Operating hours collagen tubes
- ⑨ Operating hours facial tanner
- ⑩ Number of sunbaths

PRESELECT
- ⑪ UV-Typ
- ⑫ Audio
- ⑬ Voice (megaVoice)
- ⑭ Aircon (Aircondition)
- ⑮ Aroma
- ⑯ Aqua (aquaCool)
- ⑰ Sun

AUDIO
- ⑱ MP3 internal
- ⑲ megaVoice
- ⑳ megaVoice language
- ㉑ Studio Line-in
- ㉒ usb MP3
- ㉓ MP3 external (Line in)
- ㉔ Studio channel selection
- ㉕ Number of studio channels
- ㉖ Music nonstop
- ㉗ Nonstop music source
- ㉘ Default volume tanning
- ㉙ Default volume standby
- ㉚ Maximum adjustable volume
- ㉛ megaVoice volume adaption
- ㉜ Dynamic volume adaption
- ㉝ Treble MP3 - USB
- ㉞ High bass MP3 - USB
- ㉟ Low bass MP3 - USB
- ㊱ Volume adaption studio Line-In
- ㊲ Treble studio line-In
- ㊳ High bass studio line-in
- ㊴ Low bass studio line-In

AQUA
- ㊵ aquaCool
- ㊶ aquaCool spray time
- ㊷ Cycle time
- ㊸ aquaCool start test cycle
- ㊹ aquaCool endurance test
- ㊺ aquaCool start initialization

AROMA
- ㊻ Aroma
- ㊼ Aroma status reset
- ㊽ Cycle time
- ㊾ Aroma cabin automatic
- ㊿ Aroma cycles per hour
- (51) TIMER AROMA
- (52) Aroma start test cycle

AIR CONDITIONING
- (53) Air condition
- (54) Start level body fan

RGB
- (55) RGB mode

EASYCARE

SETTINGS
- (56) easyCare mode only (EConly)
- (57) man. time config (T.Display)
- (58) easyCare tanning time
- (59) Adjust
- (60) Set value quicktest

- (61) Sensor-check
- (62) Volume

(63) **UV-LEVEL**

SERVICE
- (64) Load factory defaults
- (65) Personal PIN
- (66) FIRMWARE-TYP
- (67) FIRMWARE-VERSIONS
- (68) SOFTWARE UPLOAD
- (69) RGB-Setup

SERVICE MODE
- (70) Service modus without tanning
- (71) Service modus with tanning

- (72) SOLARIUM IDENTIFICATION
- (73) SOLARIUM X-CODE
- (74) Reboot

(75) **EVENT LOG**

Personal PIN

In delivery condition some menu items are protected by a factory PIN. Optionally, the factory PIN can be replaced by a “Personal PIN”.

- You will receive the “Personal PIN” with the product documentation.
- The personal PIN may be activated or deactivated by selecting the “SERVICE/Personal PIN” setting in the service menu.

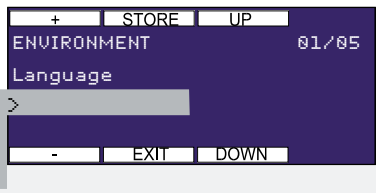
	Every software update deactivates the “Personal PIN”.

”Personal PIN” secured menu items may be identified by the personal PIN logo as given in the service menu.

Service menu - options

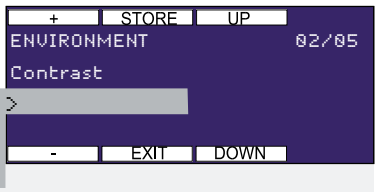
	• In order to avoid operating errors, read through the basics at the beginning of the “Service Menu” section.

- Always remember to save your settings by pressing STORE.
- All menu items that comprise further submenus are displayed in CAPITAL LETTERS.

① 

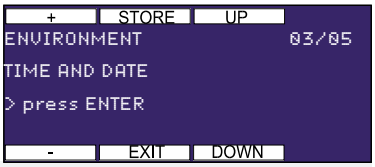
Sets the language of the menu.

Factory setting: German

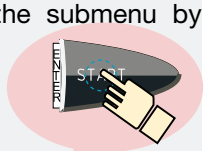
② 

Sets the contrast of the display.

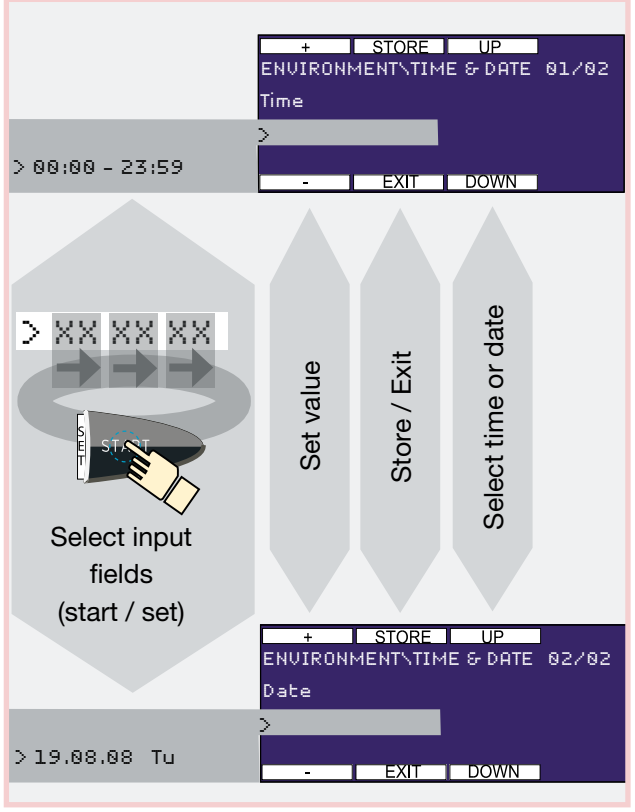
Factory setting: 00020

③ 

Entry of date and time. Invoke the submenu by pressing START (ENTER).



SUBMENU
TIME & DATE



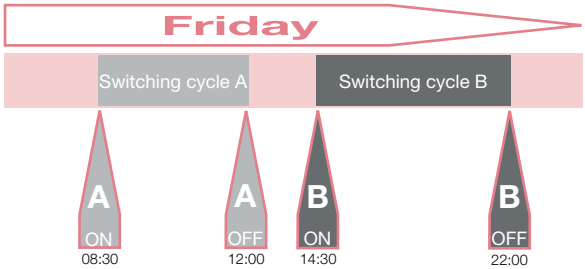
The menu item „TIMER DEKOLIGHT“ offers you two switching cycles (A and B) for each day of the week.

NOTE - SWITCHING CYCLES

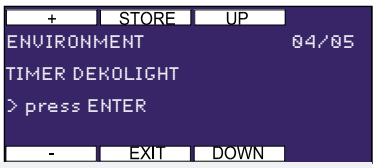
Using the setting „monday-sunday“, the switching cycle will be the same for each day of the week.

Week	Switching cycles A	Switching cycles B
Monday - Sunday	A-ON	B-ON
	A-OFF	B-OFF

Day	A	B
Monday	A-ON	B-ON
	A-OFF	B-OFF
Tuesday	A-ON	B-ON
	A-OFF	B-OFF
Wednesday	A-ON	B-ON
	A-OFF	B-OFF
Thursday	A-ON	B-ON
	A-OFF	B-OFF
Friday	A-ON	B-ON
	A-OFF	B-OFF
Saturday	A-ON	B-ON
	A-OFF	B-OFF
Sunday	A-ON	B-ON
	A-OFF	B-OFF



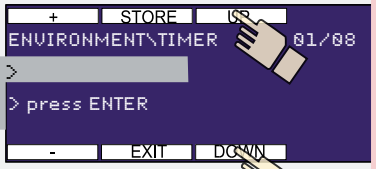
4



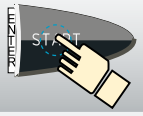
Entering switching times for the decorative lighting.
The submenu is invoked by pressing START (ENTER).

SUBMENU
TIMER DECO. LIGTH

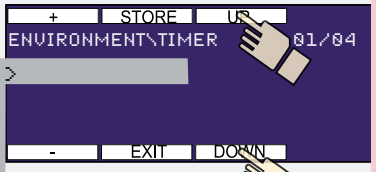
SELECT DAY OF THE WEEK



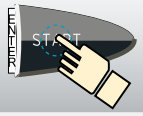
> Monday - Sunday



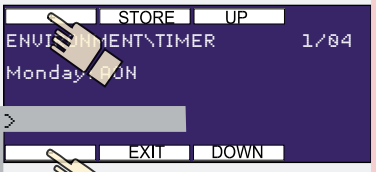
ENTER SWITCHING TIME



> (Day) AON
> (Day) AOFF
> (Day) BON
> (Day) BOFF



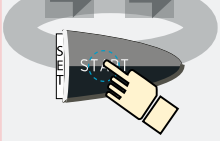
SET SWITCHING CYCLES



> 00:00 - 23:59

+/- Set the time

> XX : XX



Select input fields (start / set)

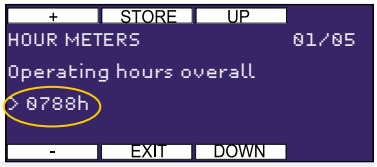
- Save settings by pressing STORE!

5 PERSONAL PIN

> 5min .. . 45min

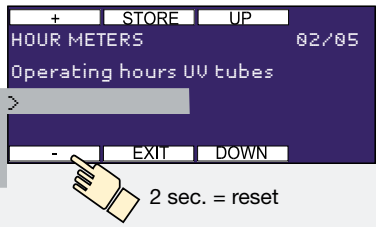
Sets the maximum tanning time for all timers. In the easyCare operating mode, the setting has been fixed to 30 minutes.
Factory setting: 44 minutes

6



Displays the total operating hours.

7

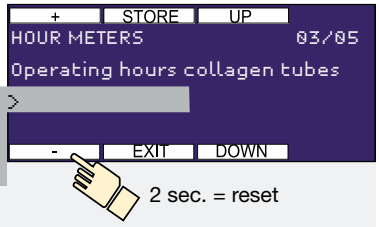


> 0183h

Displays the total operating hours of the UV tubes and includes a reset function and set function to set the value in steps of five via the +/- buttons.

- Save settings by pressing STORE!

8

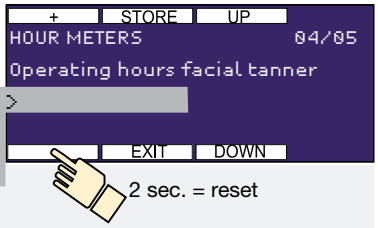


> 0183h

Displays the total operating hours of the collagen tubes and includes a reset function and set function to set the value in steps of five via the +/- buttons.

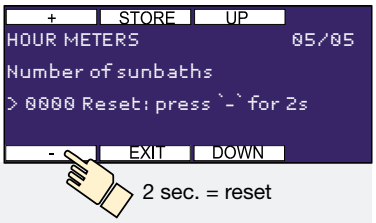
- Save settings by pressing STORE!

9



Not available in this system

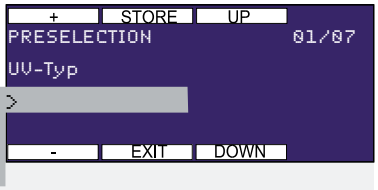
10



Indicates the number of tanning sessions (sunbaths) and includes a reset function.

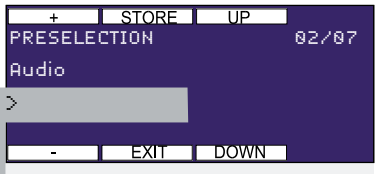
Under the menu item "PRESELECTION" you can make the initial settings for the device. The functions must be available and activated in this service menu ⑱/⑲/㉑/㊵/㊻/㊸.

11



Not available in this system.

12

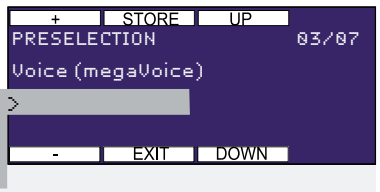


> Studio Line-In
> MP3-internal
> MP3-external

Determines the start setting of the audio source.

Factory setting: MP3-internal

13

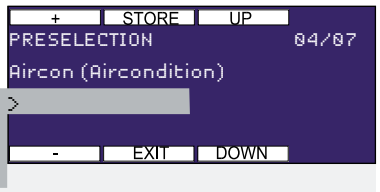


> on
> off

Specifies the start setting of the voice-guidance system.

Factory setting: on

14

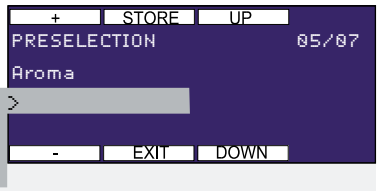


> on
> off

Fixes the start setting of the air-conditioning system.

Factory setting: on

15

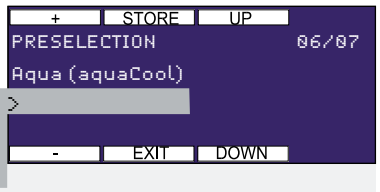


> on
> off

Specifies the start setting of aroma.

Factory setting: on

16

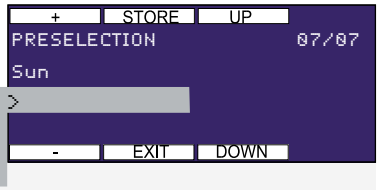


> on
> off

Specifies the start setting of aquaCool.

Factory setting: on

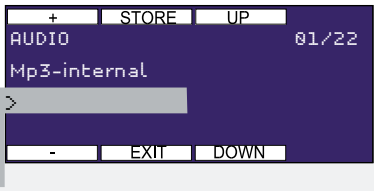
17



>

Not available in this system.

18

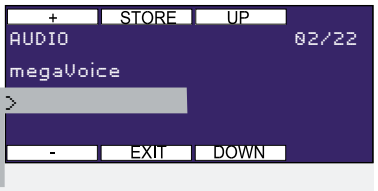


> on
> off

Activates and deactivates the internal MP3 player.

Factory setting: off

19

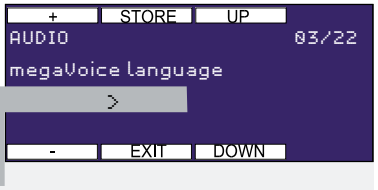


> on
> off

Activates and deactivates the voice-guidance system (megaVoice).

Factory setting: on

20

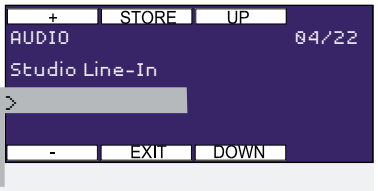


> englich
> german
> ...

Fixes the language setting of the megaVoice system.
The following languages are fully supported:
GB,RU,DE,FR,IT,PL,CZ,NL,HU,BG,HR,RO,RS,SK
The following languages are supported in part:
DK,EE,LT,NO,ES,SE,TR (exclusive easyCare)

Factory setting: Depending on the operator country

21

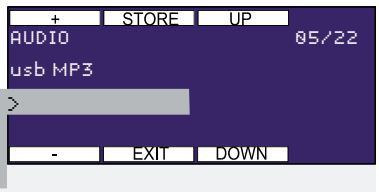


> on
> off

Activates and deactivates the Studio (line-in) audio signal.

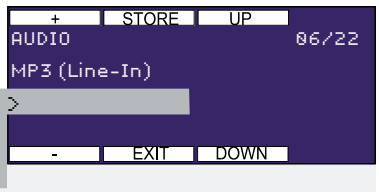
Factory setting: on

22



Not available in this system.

23

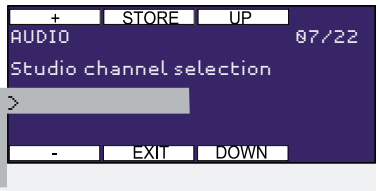


> on
> off

Activates and deactivates the line-in connection (audio module) for units from standard-line level to low loudspeaker levels (MP3 player, iPod, etc.).

Factory setting: on

24

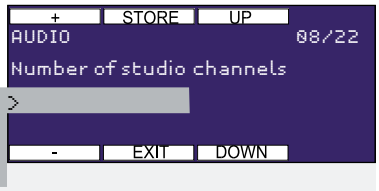


> bcd
> puls code
> off

Allows for the change-over between pulse-code and BCD-code mode with the Studio signal pending and deactivates the external-channel selection.

Factory setting: bcd

25



> 2
> 4

If bcd has been preselected, the number of channels available in the studio is specified here.

Factory setting: 4

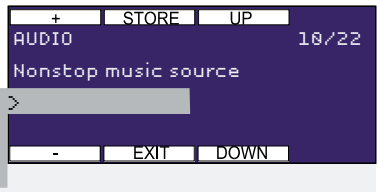
26

> on
> off

If this function is active, music is played nonstop, i.e. also out of tanning sessions.

Factory setting: off

27

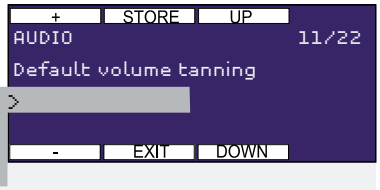


> MP3-internal
> Studio Line-In

Allows for choosing the permanent audio source for the “Music nonstop” function“.

Factory setting: MP3-internal

28

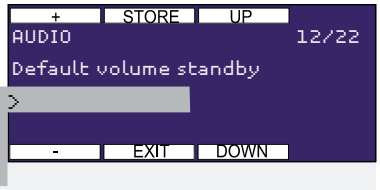


> 0 .. 9

Sets the volume for the collagen-tanning mode.

Factory setting: 6

29

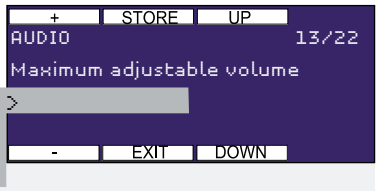


> 0 .. 9

Sets the volume for the standby mode.

Factory setting: 3

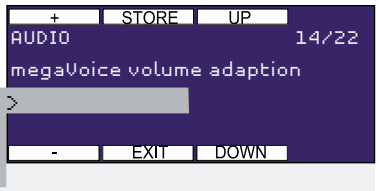
30



Presetting the maximum adjustable sound level, limits the maximum adjustable sound level in the operating and standby mode.

Factory setting: 9

31



Here you can adapt the volume of megaVoice.

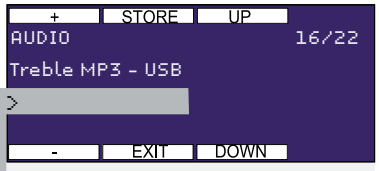
Factory setting: +00 dB

32

Dynamic volume adaption on-/off.

Factory setting: on

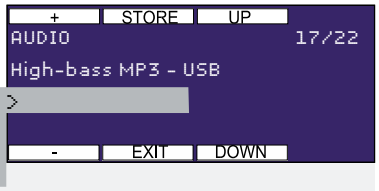
33



Sets the treble for MP3 - USB operation.

Factory setting: 00 dB

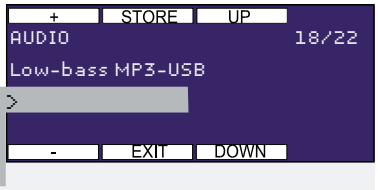
34



Sets the high-bass for MP3 - USB operation.

Factory setting: 00 dB

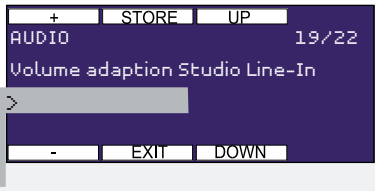
35



Sets the low-bass for MP3 - USB operation.

Factory setting: +07 dB

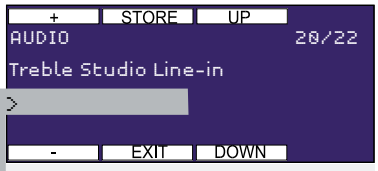
36



Here you can adapt the volume of studio line-in signal.

Factory setting: +00 dB

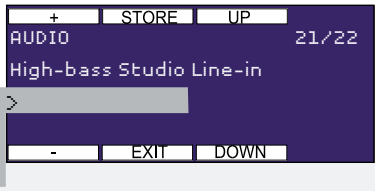
37



Sets the treble for studio music operation.

Factory setting: 00 dB

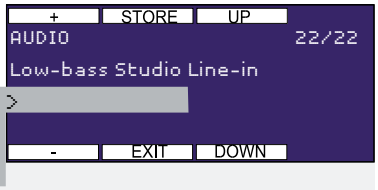
38



Sets the high-bass for studio music operation.

Factory setting: 00 dB

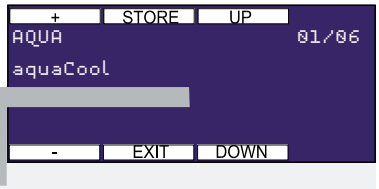
39



Sets the low-bass for studio music operation.

Factory setting: +07 dB

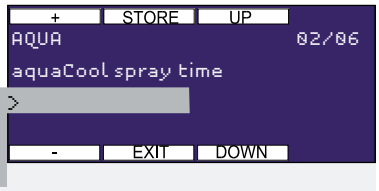
40



Activates and deactivates the aquaCool function.

Factory setting: off

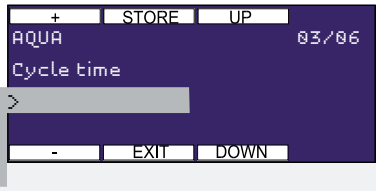
41



Determines the duration of the aquaCool spraying time.

Factory setting: 6

42



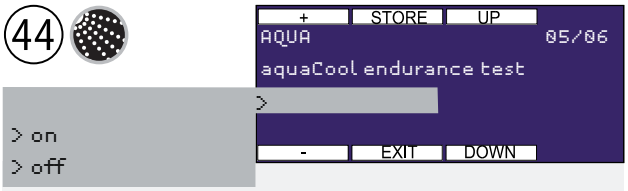
Defines the aquaCool and aroma cycle time (spraying time + spraying interval).

Factory setting: 1

43

Starts the aquaCool test (1 cycle).

44



Starts the aquaCool endurance test. After having selected and stored the “on” setting, you must leave the service menu and start a collagen-tanning session. Attention! aquaCool will continue to spray permanently during a whole tanning session.

Factory setting: off

45

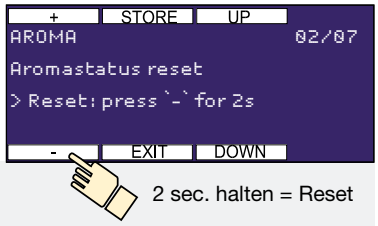
Starts the aquaCool initialization process. A spraying cycle of 90 seconds is started to bleed the system before commissioning or after a repair operation.

46

Activates and deactivates the aroma function.

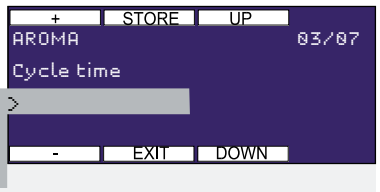
Factory setting: off

47



Reset -> after having exchanged the Aroma tin.

48

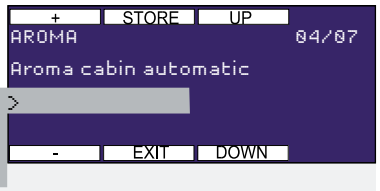


> 1 .. . 5 (min)

Defines the aroma cycle time (spraying time + spraying interval). Only be active on systems without Aroma!

Factory setting: 1

49

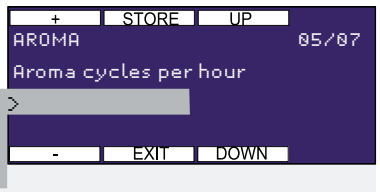


> Door contact
> Intervall
> off

The cabinet scent release can be set at intervals, controlled by a door contact switch, or completely deactivated.

Factory setting: off

50



> 1 .. . 6

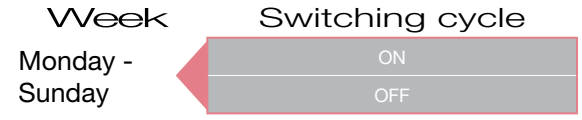
For interval operation of the cabinet scent released, the number of scent releases per hour can be set here.

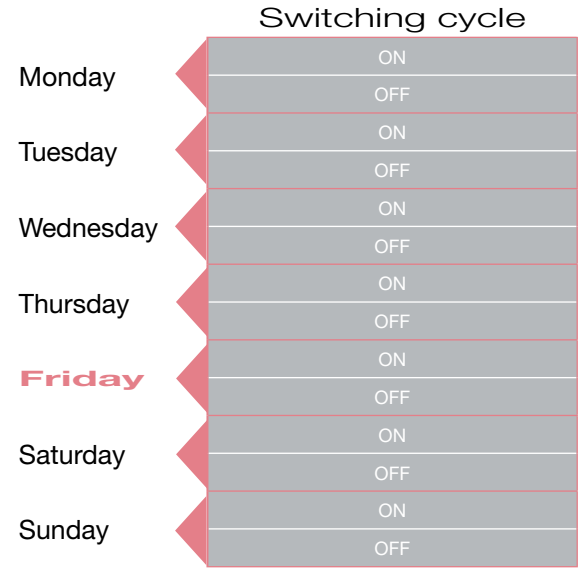
Factory setting: 3

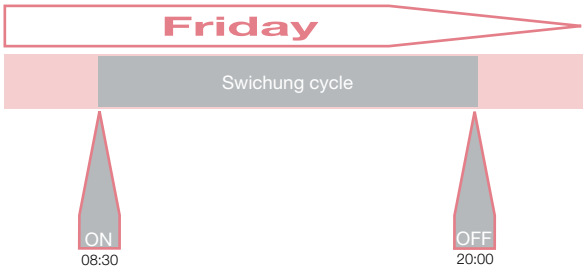
The menu item „TIMER AROMA“ offers you a switching cycle for each day of the week.

NOTE - SWITCHING CYCLES

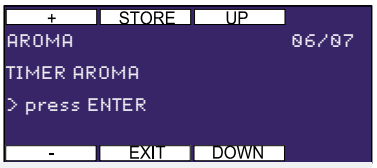
Using the setting „monday-sunday“, the switching cycle will be the same for each day of the week.







51

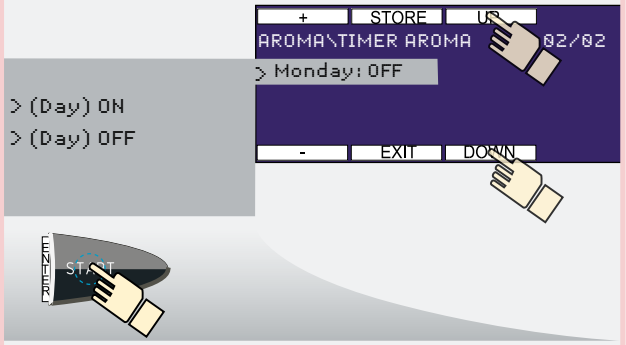


Entering switching times for the Aroma Timer.
The submenu is invoked by pressing START (ENTER).

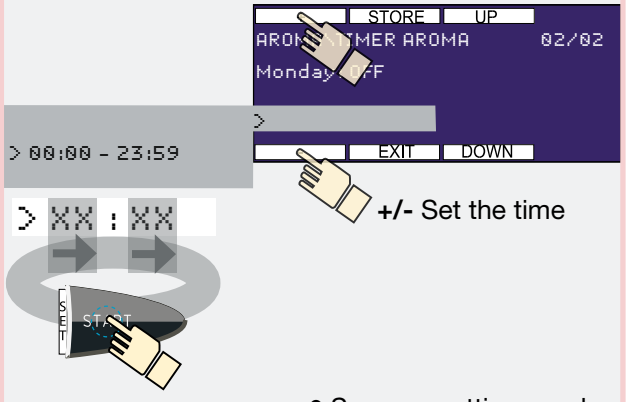
SUBMENU
TIMER AROMA

SELECT DAY OF THE WEEK

ENTER SWITCHING TIME



SET SWITCHING CYCLES



+/- Set the time

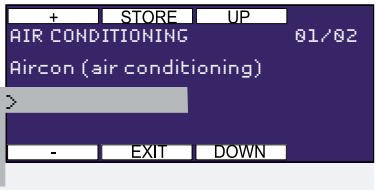
Select input fields (start / set)

- Save settings by pressing STORE!

52

Starts the Aroma test (1 cycle).

53

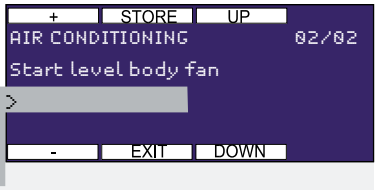


> on
> off

Switches the air-conditioning unit on and off.

Factory setting: on

54

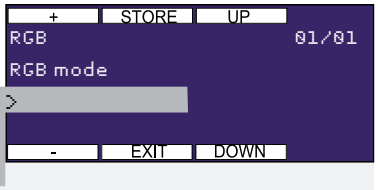


> 1 .. 9

Specifies the “start speed” setting of the body fan at the beginning of the collagen tanning.

Factory setting: 2

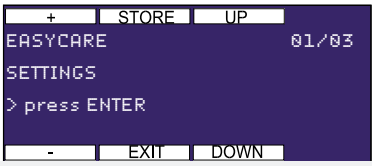
55



> 0 .. 9

Not available in this system.

This item (easyCare) is only available when mon amie terminal is connected.

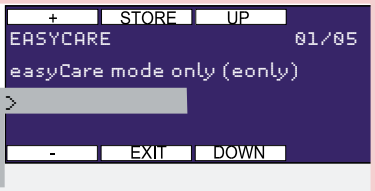


Submenu SETTINGS.
Invoked by pressing START (ENTER).

SUBMENU
EASYCARE SETTINGS

easyCare mode only (EConly) 56
man. time config (T.Display) 57
easyCare tanning time 58
Adjust 59
Set value quicktest 60

56

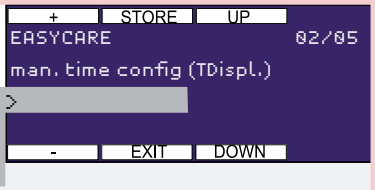


> on
> off

If this function is active, the tanning session is strictly carried out on the basis of the values determined by the mon amie terminal.

Factory setting: off

57

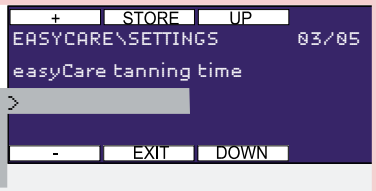


> on
> off

If this function is active, the tanning time can be entered at the mon amie terminal. The tanning power will be adapted automatically.

Factory setting: off

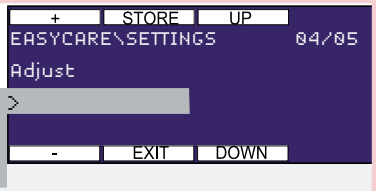
58



Allows for preselecting the tanning time. The tanning power will be adapted automatically.

Factory setting: 20 min

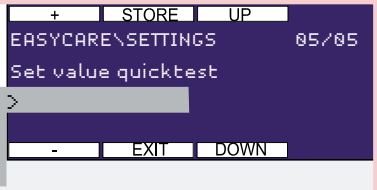
59



These settings must only be made by trained service personnel!

The default setting „1“ must not be changed.

60



These settings must only be made by trained service personnel!

Factory setting: 244

61

Displays the current values during a melanin measurement.

This function is intended for sensor diagnosis to be performed by qualified service staff!

62

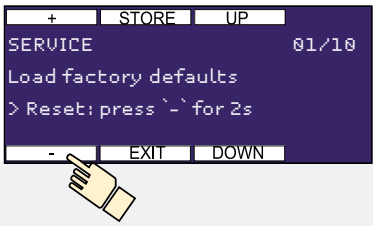
Sets the volume of the easyCare voice-guidance system.

Factory setting: 4

62

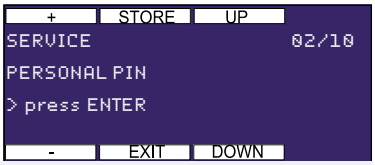
Not available in this system.

64 PERSONAL PIN



Loads the factory (default) settings.

65 PERSONAL PIN



Submenu call
with START/ENTER.

SUBMENU

PERSONAL PIN

PERSONAL PIN activate / deactivate
Enter your personal PIN.

66

Submenu call with START/ENTER. Displays the current firmware typ / variant.

67

Submenu call with START/ENTER. Displays the current firmware version of the system components.

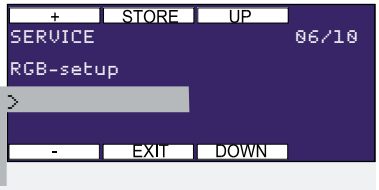
Do not operate the system with different firmware versions!

- **All system components must be equipped with an identical firmware version.**

68

Submenu call with START/ENTER. Displays the first and the last Software-Upload

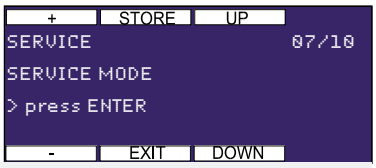
69



> 1
> 2

Not available in this system.

PERSONAL PIN

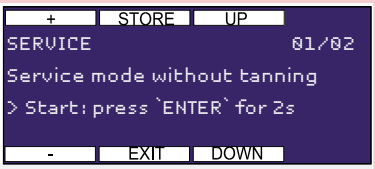


Submenu SERVICE MODE.
Invoked by pressing
START (ENTER).

SUBMENU
SERVICE MODE

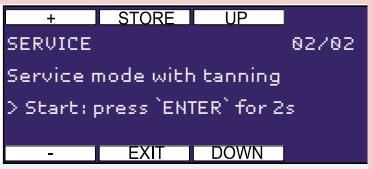
Service mode without tanning ⑦⓪
Service mode with tanning ⑦①

70



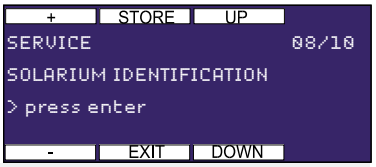
Troubleshooting mode.
The service mode is switched on for 30 minutes. The mains voltage is connected. Error notifications are ignored, but tanning cannot be started.

71



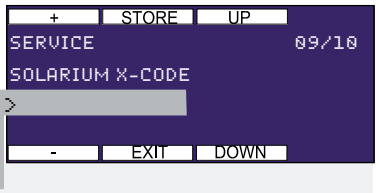
Troubleshooting mode.
The service mode is switched on for 10 minutes. The mains voltage is connected. Error notifications are ignored, tanning can be started. After this period, there is a 3 minute restart lockout.

72



Show the characteristics of the device:
- Configuration code
- Variant code
- Serial number

73

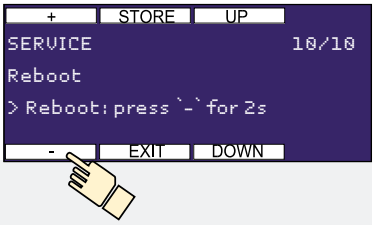


> PIN:

Branches to further configuration options.

- **These settings must only be made by trained service personnel!**

74



Performs a restart of the electronics.

Attention
- **All unsaved changes will be discarded!**

75

Lists the latest 99 events (error codes & info-messages). Detailed information is available by pressing the Start button.
Example:

no.	time	date	code	tanning time
001	16:44	05.01.09	0011	03:23
002	15:22	05.01.09	0002	07:22
003	10:07	22.12.08	....	....
004	17:16	....		
005	....			
....				
099				

Maintenance and cleaning

Regular maintenance is required for the safe operation of the tanning unit and must be documented. Cleaning must be performed when necessary.

DANGER

Live parts

Risk of fatal injury due to electric shock when touching live parts.

- **Disconnect from mains and secure against reconnection!**

- **USE ONLY ORIGINAL SPARE PARTS.**
- Replace illuminants and filters only with ones wich are characterized on the device.
- Use only original KBL ballasts (art. no. 3200271131) for intelliSun and CPI-Energy units.

Instructions for cleaning and care

GENERAL

- Before starting to clean the unit, take off any rings, bracelets, watches, etc. that you might be wearing in order to avoid scratching the surfaces.
- Cleaning fluid must not run into the appliance.

TUBES

- To preserve the tanning power, we recommend cleaning the tubes and UV lamps with warm water and a chamois after approx. 200 hours of operation.

ACRYLIC PANES, GRAB HANDLES AND DOOR HANDLES

- If possible, use the special cleaning and disinfectant agent “megaClean” supplied by KBL for cleaning the acrylic parts and handles, and dilute it in water at a ratio of 1:13.

VARNISHED AND PLASTIC PARTS

- Use a damp soapy cloth to clean the varnished and plastic surfaces.
- Do not clean the large plastic parts with a dry cloth. This might scratch the surfaces!

CHROMIUM-PLATED PARTS/MIRROR

- Only clean with a damp chamois and a cleaning agent for acrylic plastic (antistatic). Apply the cleaning agent onto the chamois and not directly onto the mirror surface.

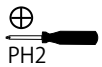
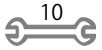
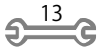
CLEANING AGENTS

- The surfaces and the acrylic panes must not be cleaned with concentrated disinfectants or solvents or other liquids that contain alcohol!

Maintenance intervals

Component/ wearing part	Cleaning/care	Replacement
Condensate tank	If a corresponding message is displayed.	When necessary
Air filter	Depending on local conditions after approx. 100 operating hours	/
Tubes - CPI devices	After approx. 200 operating hours	Typical value after about 1100 operating hours. For further information see data sheet.
Collagen booster	After approx. 200 operating hours	When necessary Characteristic useful lifetime: 10000 operating hours
Acrylic pane (bench)	When necessary	After approx. 1500 hours
Acrylic panes (others)	When necessary	When necessary
aquaCool nozzles	When necessary	After approx. 1000 hours
Ropes of the canopy drive	Check and grease after 500 - 600 hours.	Replace all ropes after 3000 hours.
Air hoses	Check after 500 - 600 hours.	When necessary
Air-conditioning unit	Clean the heat exchangers after 500 - 600 hours and check the condensate pump.	When necessary

Tools and aids

	Hexagon socket screwdriver (SW 4 / 60 mm) Art. No.: 3410055263
	Standard Phillips screwdriver (PH2)
	Phillips screwdriver (PH2) 90° offset
	Hexagon socket spanner SW 4
	Pipe wrench SW 19
	Open-ended spanner SW 10
	Open-ended spanner SW 13
	Finally acknowledge a process by pressing the Start button (interior display).
	Number of required persons

The following chapters describe the work steps required for carrying out maintenance and care actions.

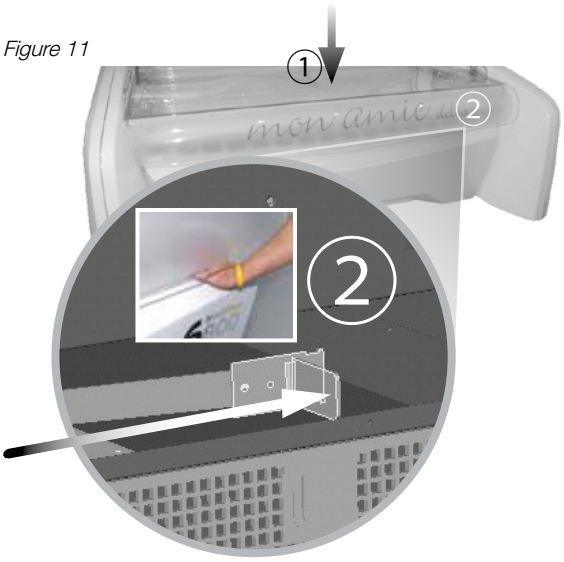
At the beginning of each chapter, the required tools and aids are depicted, unless the corresponding process can be carried out by one individual person without any further auxiliary equipment.

The assembly is basically carried out in reverse order of the disassembly.
Exceptions are especially pointed out.

If you open the bench part or one of the acrylic panes, you must, after closing, acknowledge a warning message appearing on the interior display.

Unlocking the bench

Figure 11

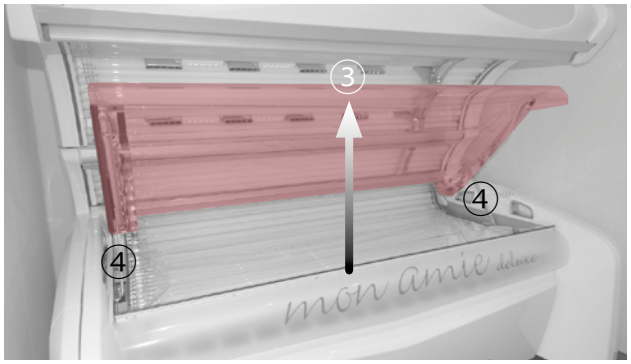


①	Press the bench slightly downwards and keep it pressed.
②	Open the lock.
⇒	Tilt up the bench.

Acrylic panes

TILTING UP THE BASE PANE

Figure 12



③	Hold the bench pane in the middle of the front edge and lift it.
④	Lock it in place using the lateral support plates.

TILTING DOWN THE CANOPY PANE / SIDE PANE

Attention!
Prevent the pane from falling down when opening it!.

- Open the middle pane lock at last Ⓑ.

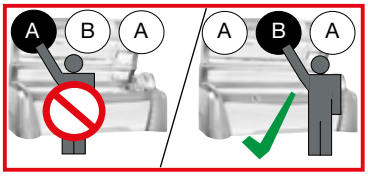


Figure 13

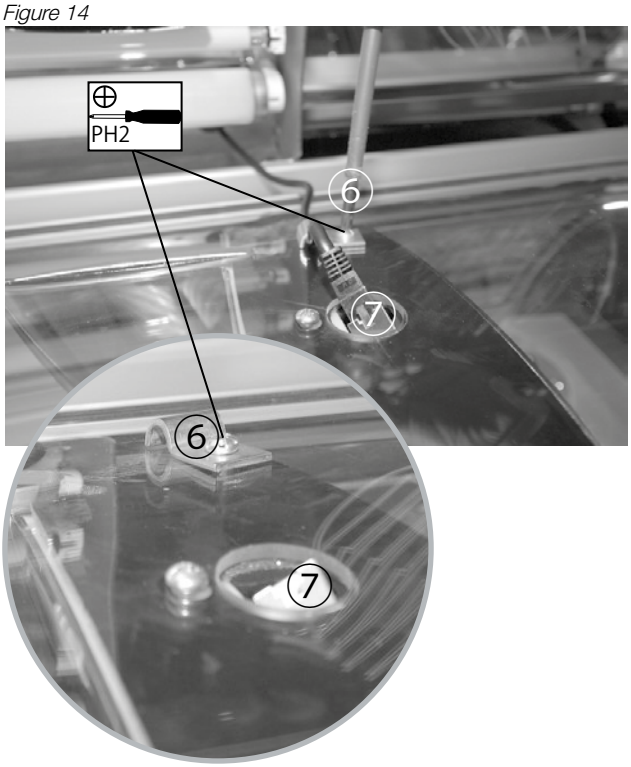
⑤	Open the 3 locking spigots by using the hexagon socket screwdriver supplied (3410055263). Observe the order!
⇒	Tilt the pane down.

REMOVING THE CANOPY PANE

4	PH2			

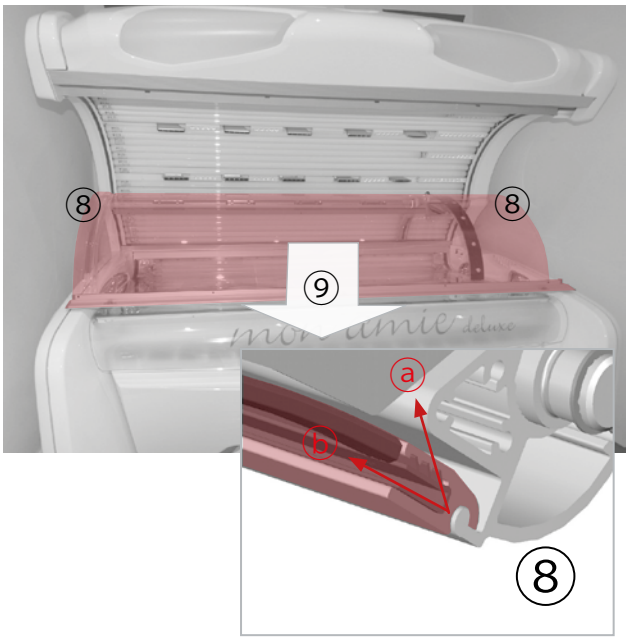
It is not usually necessary to remove the canopy pane for maintenance and cleaning operations. Should you prefer to work with the canopy pane removed, though, please proceed as follows:

Figure 14



Page 41	Tilt the canopy pane down.
⑥	Remove the strain relief of the display cable (Phillips screw M4).
⑦	Detach the display cable.

Figure 15

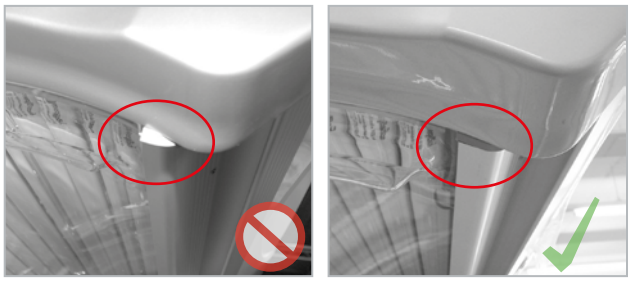


⑧	Call in a second person and hold the pane at the two ends. Then slightly lift the pane ⓐ and remove it from the rear holding section ⓑ.
⑨	Carefully pull the pane towards the front and out of the tanning area.
⇒	Deposit the pane in a safe place.

ASSEMBLY NOTE

Proceed in reverse order in order to re-install the canopy pane. Make sure that the pane seal is correctly positioned.

Figure 16



	When closing the canopy pane, make sure that the pane seal is correctly positioned.

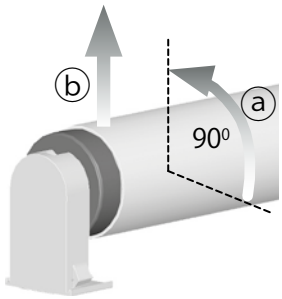
Tubes

4				

- When installing the tubes, make sure that the tube inscription is visible. If it is installed in a different position, there will be no tanning effect.
- After new tubes have been installed, the operating hours of the tubes must be reset in the service menu.

REMOVING TUBE

Figure 17



TUBE REPLACEMENT IN THE BENCH PART

Figure 18

Page 41	Open the bench pane.
⑮	If the device is equipped with an air-conditioning unit, remove the ducting pane.
⇒	Remove the tubes.

TUBE REPLACEMENT CANOPY / SIDE PART

Page 41	Tilt the canopy and / or side pane down.
⇒	Remove the tubes.

Collagen boosters

In the case of a defect, replacement can only be made by qualified technical personnel. Contact your service partner in this case.

Interior unit lighting

The lighting from inside the unit is effected by high-performance LEDs.There are LED modules located inside the unit, in the canopy and in the side part. The outer decorative lighting also consists of LEDs.

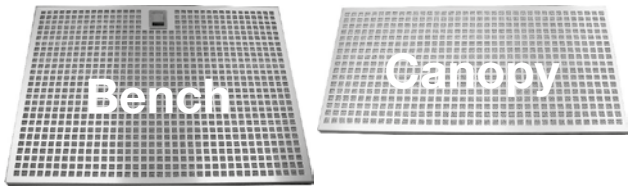
In the case of a defect, replacement can only be made by qualified technical personnel.

Contact your service partner in this case.

Filter cartridges

The cooling air for canopy and bench is filtered. Your unit is equipped with filter cartridges and continuous-service filter inserts. Therefore, purchase and replacement of conventional filter pads are not required. Clean the filter inserts after approx. 100 hours of operation, depending on the local circumstances. Vacuum the filter inserts or use a dishwasher.

Figure 29



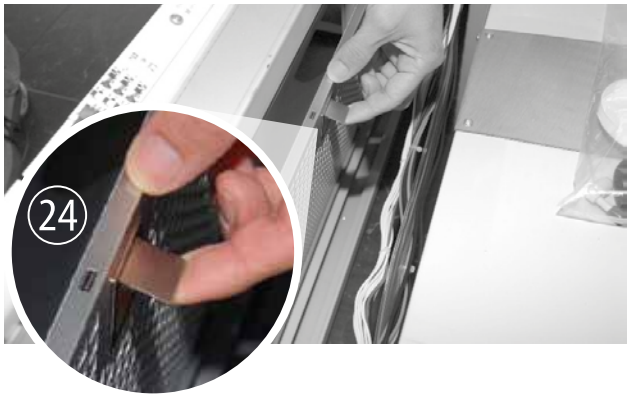
There are four filter cartridges each in the canopy and in the bench part.

NOTE

Take the opportunity and check and clean the heat exchangers of the air-conditioning unit (See also the chapter “Maintenance/Ventilation and air-conditioning”). Soiled heat exchangers substantially reduce the performance of the air-conditioner.

FILTER CARTRIDGES IN THE BENCH PART

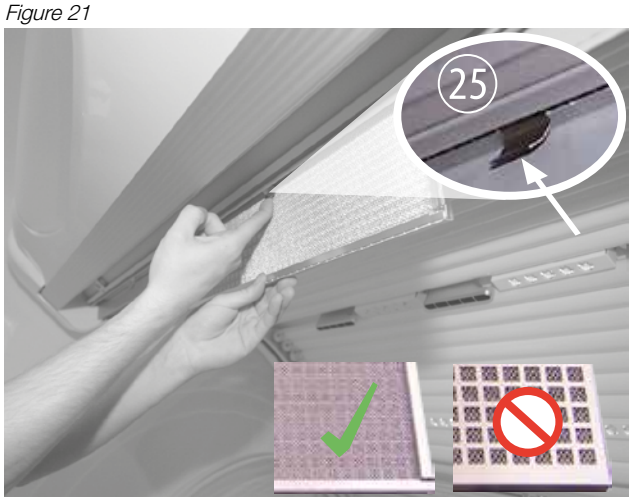
Figure 20



Page 41	Open the bench part.
㉔	Open the lock of the filter insert.
⇒	Remove the filter insert.

FILTER CARTRIDGES IN THE CANOPY PART

Figure 21



Page 41	Fold down the canopy pane.
㉕	Open the retaining clamp of the cartridge.
⇒	Remove the filter insert.

	When installing the insert, make sure that the honeycomb grill is directed towards the inside.

Canopy drive

4	PH2	10/13	19	PH2

Service the wire ropes after each tube replacement in order to guarantee a trouble-free operation of the drive.

SERVICING THE CANOPY DRIVE

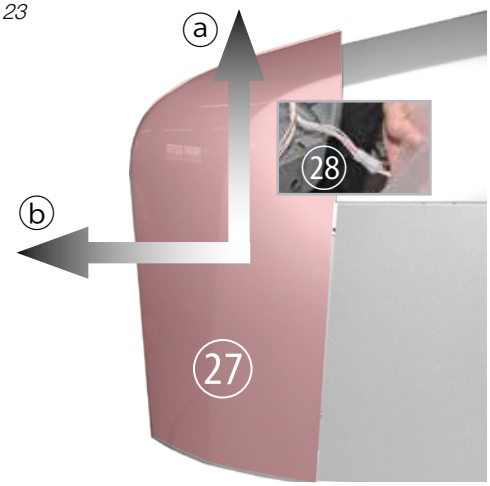
⇒	Test the canopy drive. The canopy must lock in place in all positions. If it does not, the canopy springs must be tensioned.
⇒	Check the ropes of the canopy drive. Should individual wires be frayed, replace the rope immediately.
⇒	Grease the rope in the area of the return pulley with copper crease or adhesive lubricant HHS-2000 (KBL 1200024000).

REPLACING THE SPRING-LOADED WIRE ROPES (PREPARATION)

Figure 22

Page 41	Open the bench part.
㉖	Disconnect the cable connections of the audio system (only on right-hand side).
	Pay attention to the correct connections according to the colours ㉖ during the subsequent assembly.
⇒	Close the bench.

Figure 23

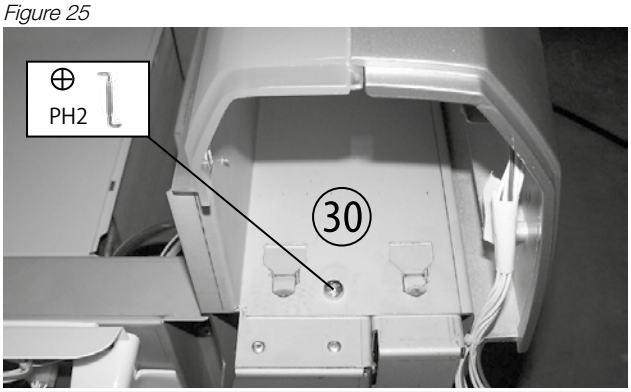


㉗	Remove the foot panel and undo the cable of the decorative lighting ㉘.

Figure 24

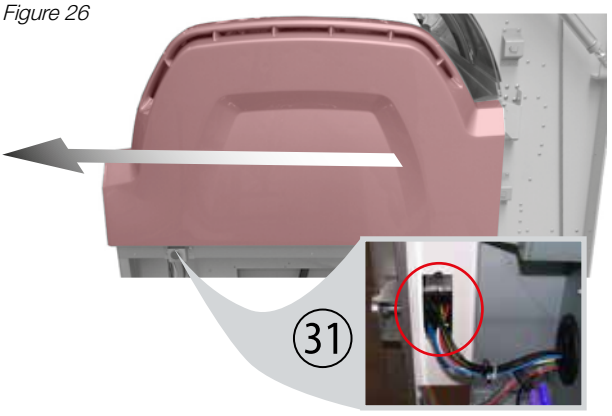
㉙	Remove the side panel -> pull forward ㉙.

Figure 25



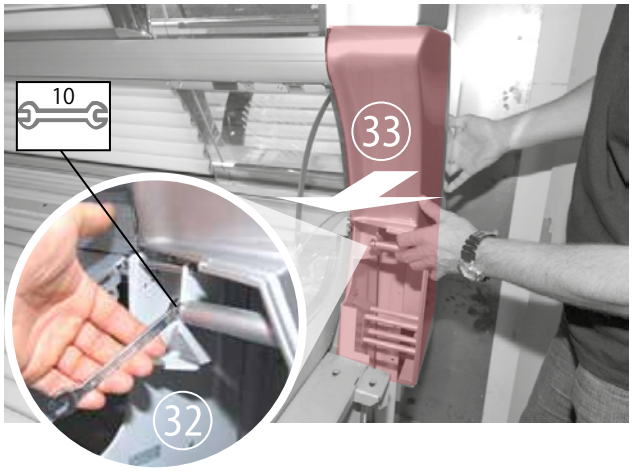
㉚	Remove the screw (M6x12) of the shoulder tanner or the shoulder part.

Figure 26



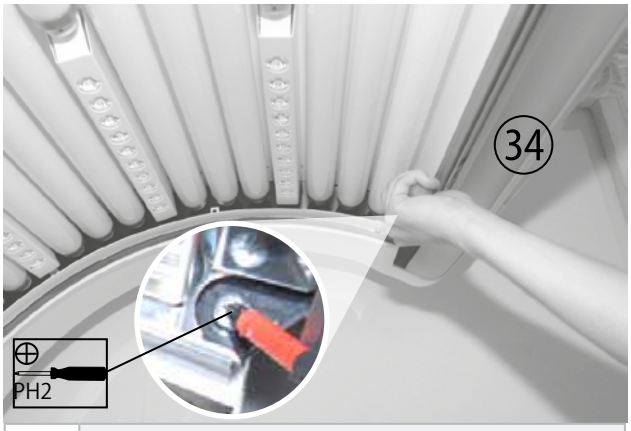
31	Disconnect the plug-in connector of the cable harness from the base plate of the shoulder tanner.
⇒	Remove the shoulder tanner or the shoulder part.

Figure 27



Page 41	Tilt down the side pane.
32	Loosen the hexagon socket head screw (SW10) by approx. two turns.
33	Remove the hinge cap.

Figure 28



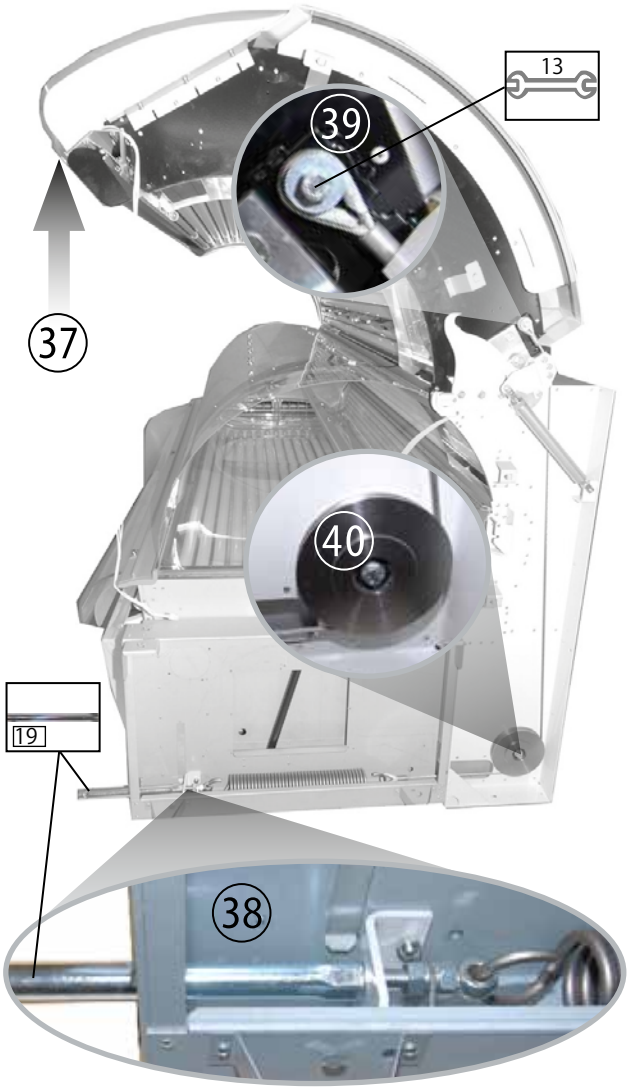
Page 41	Tilt the canopy pane down.
34	Remove the front fastening of the end cap of the canopy (Phillips screw).

Figure 29

35	Remove the end cap of the canopy and pay attention to the cable of the decorative lighting 36.
36	Disconnect the cable connection of the decorative lighting on the inside of the canopy end cap.

REPLACING THE SPRING-LOADED WIRE ROPES

Figure 30

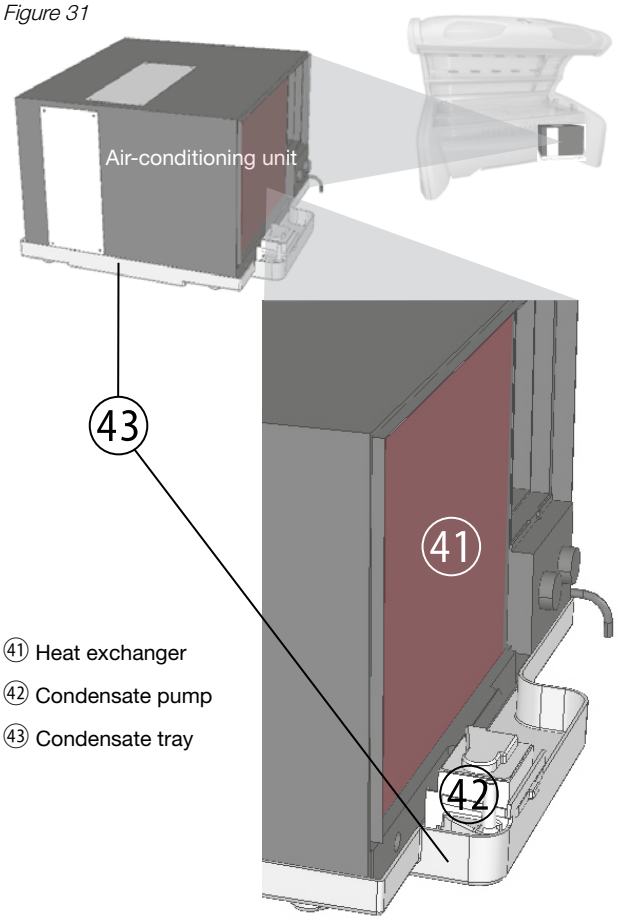


37 ⚠	Involve a second person to secure the canopy against falling down.
38	Remember the position of the nut at the spring tensioner. Then slacken the spring using a pipe wrench SW19.
39	Undo the upper rope holder SW13.
⇒	Replace the wire rope. Fix and tension it.
40	Grease the rope in the area of the return pulley with copper crease or adhesive lubricant HHS-2000.

Ventilation and air-conditioning

In order to preserve the performance of the air-conditioning unit, clean the heat exchangers after 500 - 600 hours of operation.

Figure 31



Page 41	Open the bench part.
41	Clean the heat exchanger.
⊘	Vacuum it carefully, paying attention not to damage the fins.

SERVICING THE VENTILATION SYSTEM

⇒	Check all hose connections.
⇒	Remove any kinks in the air hoses. Replace defective hoses immediately.

	The exhaust air hose must not exceed a maximum length of 6 m if there is no auxiliary fan installed.

CHECKING THE CONDENSATE PUMP

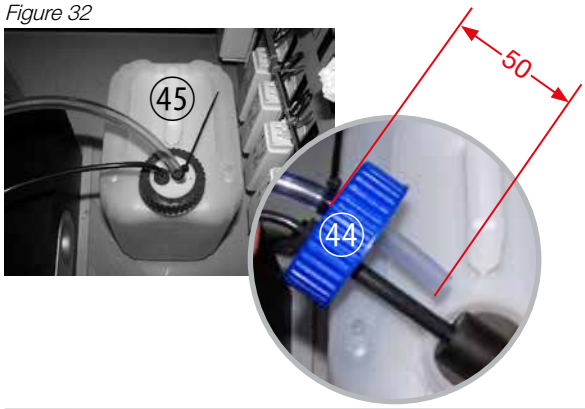
The condensate pump ㊷ pumps away the condensation water at timer-controlled intervals. Check the function of this pump with each tube replacement.

⇒	Fill some water into the condensate tray ㊸. Use a hose and a funnel to do so.
	Make sure that the water does not spill over.
⇒	Start a tanning session and then wait for 20 minutes.
⇒	The filling level of the tray must then be below the pump level.

EMPTYING THE CONDENSATE TANK

The condensate pump transports the condensation water into a canister via a hose. Once this condensate canister is full, a corresponding message is displayed. The air-conditioning symbol flashes (check), and the air-conditioning unit switches off shortly afterwards.

Figure 32



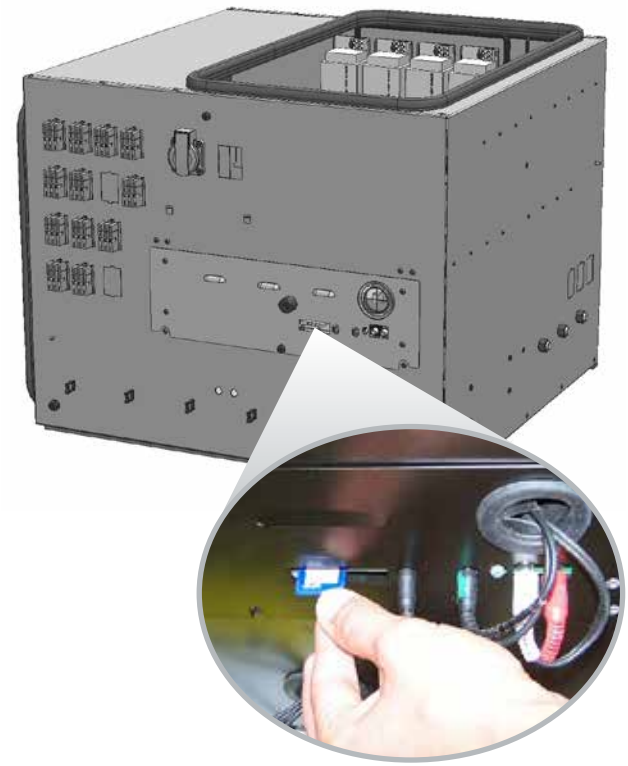
㊹	Unscrew the closing lid of the condensate canister.
㊺	Empty the condensate canister.
	When closing, make sure that the condensate hose is inserted a max. of 50 mm into the canister.
⇒	Finally, acknowledge the aircon message on the display (START).

Recording to an SD card

REMOVING THE SD CARD

The SD card slot which contains the storage medium with the MP3 data from the internal MP3 player is located at the control box in the bench part of the device.

Figure 33



Please refer to the chapter “Technical data” for information regarding supported card sizes as well as file-system and MP3 formats. The SD card must not be formatted, the Voice folder and its contents must not be changed or deleted. Outside of this folder you can add or delete audio files as you desire. These audio tracks are played if the corresponding source has been selected. The number of files is limited by the storage capacity of the SD card.

RECORDING TO THE SD CARD

	Attention! • Do not modify or delete the VOICE folder or the data it contains.

⇒	Insert the card into the computer and wait for it to be recognised.
⇒	Copy files to SD card, or delete files from it.

Replacing Aroma and aquaCool media

	Attention! Do not use any agents other than aquaCool and Aroma gel supplied by KBL! • Risk of infections • Function of nozzles impaired

REPLACING THE AQUACOOL CANISTER

	Due to the system a residual amount remains in the canister.

If the aquaCool canister is empty, corresponding messages are displayed, and aquaCool switches off shortly afterwards.

Figure 34

Page 41	Open the bench part.
46	Unscrew the lid.
	Keep the hose end including the lid in a clean plastic bag while replacing the canister.
47	Replace the tin.

REPLACING THE AROMA TIN

When the Aroma tin is empty, a corresponding message is displayed.

Figure 35

Page 41	Open the bench part.
(48)	Unlock the retaining bracket.
(49)	Replace the tin.
⇒	Reset the Aroma counter in the service menu to 0 (Reset). Then the message on the display will disappear.

Replacing the aquaCool nozzles

After 1,000 hours of operation, the aquaCool nozzles must be replaced in order to ensure that the aquaCool system functions properly. The assembly instructions are included with your spare parts delivery.

mon amie skin sensor

- **Do not use any concentrated disinfectants or solvents or other liquids that contain alcohol.**

CLEANING THE HOUSING

- The plastic housing should be cleaned as needed.
- Only use a cloth that has been dampened with a mild soap solution to clean the surfaces of the housing.
- The cleaning solution must never get into the housing.

CLEANING THE MELANIN SENSOR

- Clean the melanin sensor before each use in the presence of the customer.
- Use only a common disinfecting cloth for cleaning.
- The cleaning solution must never get into the melanin sensor.

System messages

ERROR MESSAGES			
After the error has been eliminated, all error messages must be acknowledged by pressing **START** on the interior display.			
No	Status message	Description	Remedy
01	Excess temperature bimetal canopy	Bimetal switch triggers.	Check the air-intake/air-discharge system. Let the device cool down.
02	Maximum tanning time!	Enabling signal from coin-box system comes in longer than the time value approved under “Maximum tanning time” (voltage remains connected)	Disconnect from the coin-box system.
03	Excess temperature exhaust fan, please check	Bimetal switch in the fan triggers.	Make sure the fan runs freely. Check the air-intake/air-discharge system. Let the sunbed cool down.
04	Connection fan speed control faulty	Faulty communication between mainboard and fan-speed control.	Check / replace the patch cable.
08	Canopy pane open, please close	Contact of the canopy pane has triggered.	Close the canopy pane and check the contact.
09	Side pane open, please close	Contact of the side pane has triggered.	Close the side pane and check the contact.
10	Bench / bench pane open, please close	Contact of the bench pane has triggered.	Close the bench / bench pane and check the contact.
12	KBL7 Hardware error Input-Controller	Mainboard defective.	Contact your customer service.
13	Maximum write cycle flash memory reached	Maximum write cycle flash memory reached.	Contact your customer service.
14	Error! SD card read error (CRC fault)	Update via SD card failed (CRC fault).	SD card check / replace.
15	Error! no access to the SD card	Update via SD card failed (access error).	SD card check / replace
17	Parameter storage not found, please connect and restart	Parameter storage not found, please connect and restart.	Check connector parameter storage. If necessary replace parameter storage.
18	Parameter storage no valid serial number	Parameter storage no valid serial number.	Contact your customer service.
19	CAN-BUS: Interior display V1 is incompatible	CAN-BUS operators incompatible.	Use CAN-BUS operaters V2.
20	CAN-BUS: preSelection display V1 is incompatible		
21	CAN-BUS: audio module full V1 is incompatible		
22	CAN-BUS: RGB module V1 ist incompatible		
23	Parameter storage write error	Parameter storage write error.	Check connector parameter storage. If necessary replace parameter storage.
24	Parameter storage read error	Parameter storage read error.	Check connector parameter storage. If necessary replace parameter storage.

ERROR MESSAGES			
After the error has been eliminated, all error messages must be acknowledged by pressing **START** on the interior display.			
No	Status message	Description	Remedy
25	Frequency detection: detection failed!	Frequency detection failed.	Restart the controller. Contact your customer service after the third unsuccessful restart.
26	Frequency detection: power supply connection faulty (connector X6/E6)!	Frequency detection failed. No mains voltage.	Check mainboard connector X6/E6.
28	Overheat	Device temperature too high	Check the air-intake/air-discharge system. Let the device cool down.

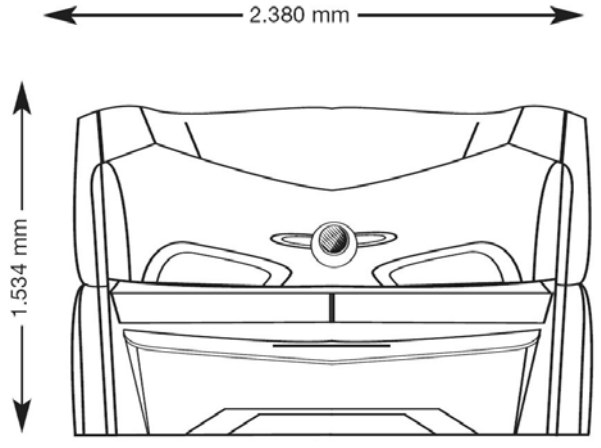
INFORMATION MESSAGES			
No	Status message	Description	Remedy
203	Fill level aquaCool canister low	The content of the aquaCool canister is sufficient for another 2.5 hours of operation with a spraying time of 6 seconds each.	Replace the empty aquaCool canister with a full one. Do not replace aquaCool with any other liquid.
204	Connection aquaCool unit faulty	Communication between control and module / display has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.
205	Connection audio module faulty		
206	Connection inside display faulty		
207	aquaCool canister empty	aquaCool canister empty.	Replace the aquaCool canister with a full one. See chapter: Refilling Aroma and aquacool
208	Aroma supply low, please renew	System has run out of scent.	Replace the Aroma tin. See chapter: Refilling Aroma and aquacool
209	aircon:condensed-water canister full, please empty	Condensate canister of air-conditioning unit full.	Empty the condensate canister of the air-conditioning unit, acknowledge the message by pressing START.
210	Low battery charge, please renew	Button cell (CR-2032) of the control board discharged.	Replace the button cell (CR-2032).
211	Connection preselect display faulty	Communication between control and “preSelection” display has been interrupted.	Check / replace the patch cable. Acknowledge the message by pressing START.
212	Connection RGB-module faulty		
213	SD card missing	No SD card in the audio module.	Insert an original SD card. See chapter: Recording to an SD card/Removing the SD card
214	SD card unreadable	SD card defective, incompatible content.	Insert a new original SD card. Acknowledge the message by pressing START. See chapter: Recording to an SD card/Removing the SD card.
215	Connection to easy Care terminal faulty	Communication between control and easyCare terminal has been interrupted.	Check cable connections and power supply. Acknowledge the message by pressing START.
216	Voltage varies, blease check	Power supply to the mainboard varies	Check power supply to the mainboard.
217	No voice files on the SD card, pleas check.	No voice files on the SD card found.	Rebuild voice folder on the SD card. If necessary replace original SD card.
219	Connection rubinColl unit faulty.	Driver collagen booster. CAN-BUS connection lost.	Contact your customer service.

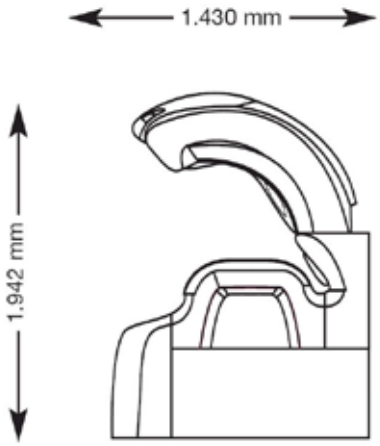
INFORMATION MESSAGES			
No	Status message	Description	Remedy
220	OW to many sensors	General OneWire sensor error	Contact your Customer Service.
221	OW sensor Typ B missing		
222	OW sensor Typ S missing		
223	OW sensor read error		
226	Quicktest Sensortoleranz OK	Sensor Quicktest log entry - No display appears - Message will be stored directly in the event log (service menu).	
227	Quicktest Sensortolerance error		

Technical data

Ambient conditions	
Installation site	In dry rooms (booths) with sufficient airing and ventilation • Maximum relative air humidity: ≤ 70 % • Maximum room temperature: ≤ 30 °C • Minimum height of the room: 2400 mm
Weights and measures	
Dimensions in mm (Height x width x depth)	1534 x 2380 x 1430 (when closed) 1942 x 2380 x 1430 (when open)
Bench pane max. load capacity	130 kg
Weight	approx. 620 kg (with air conditioning)
Electrical connection values	
Protective class	IP20
Mains voltage	400V / ~3N / 50Hz
Wire cross section	5 x 4 mm^2 Ölflex
MP3-Player	• Supports SD cards up to 1-2 GB (SD) / 4-16 GB (SDHC) • Supported file system (SD card): FAT16, FAT32 • Supported MP3 files: constant and variable bit rate, 96-320 Kbit/s • Supported MP3 files (USB-Port): constant and variable bit rate, 96-320 Kbit/s
Fuses	See unit data
Air discharge	
Fan	Exhaust-air socket Ø 300 -- 2095 mm (top) Minimum exhaust air flow rate: 2250m^3/h
Exhaust-air hose	Ø 300

Views





UNIT DATA			
KBL mon amie deluxe			
	Super	**Item no**	**Equivalency code range**
Tubes	Canopy: 11x megaLine 2104 R 180W 6x Collagen plus 2.1/18 3x Collagen plus 1.8/18 Side: 3x megaLine 2104 R 180W 2x Collagen plus 2.1/18 1x Collagen plus 1.8/18 Bench: 10x megaLine 1917 R 120W 10x Collagen plus 1.9/10	3230076121 3230076120 3230076122 3230076121 3230076120 3230076122 3230076123 3230074785	160-R-(32-42) / (3,1-4,3) - - 160-R-(32-42) / (3,1-4,3) - - 120-R-(36-48) / (3,7-4,9) -
Collagen booster	60x facial collagen booster		
	30x body collagen booster		
Nominal power	With air conditioning: 10460W Without air conditioning: 9200W		
Fuses	Automatic fuse K-type (safety cut-out), 3-pole - 3x25A with residual current operated circuit breaker (RCD)		

EQUIVALENCE KEY FOR UV FLUORESCENT LAMPS

Marking of UV fluorescent lamps according to IEC 61228

Sample coding of a lamp

160-R-32 / 3,2

Use of replacement tubes.
The tanning tables referring to this sun-bed are only valid as long as the system is operated with the original tube set!

Ratio of the NMSC-effective
UV irradiance ≤ 320nm und > 320nm
(NMSC = Non Melanom Skin Cancer)

Erythema-effective UV irradiance in the range of 250-400nm in mW/m²

Reflector types
O - For lamps without reflector
B - For lamps with reflector angles wider than >230⁰
N - For lamps with reflector angles narrower than <200⁰
R - For lamps with usual reflector angles of ≥200⁰ ∧ ≤230⁰

Indication of Watts (electrical power)

Remarks

Remarks

Remarks

mon amie deluxe

KBL AG
Ringstraße 24-26 · 56307 Dernbach · Germany
fon +49 (0) 26 89.94 26-0 · fax +49 (0) 26 89.94 26-66
eMail mon-amie@kbl.de

www.mon-ami.de